(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other instructions on reverse side)

Budget Bureau No. 42-R1425.

F.O. File 1974

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [XXX] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [XX] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: WEXPRO COMPANY

3. ADDRESS OF OPERATOR: P.O. Box 1129, Rock Springs, Wyo. 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 781 FNL, 2,116 ~~FEL~~ FWL, NE 1/4 NW 1/4
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: U-11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: PATTERSON

8. FARM OR LEASE NAME: UNIT

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5 - 38S. - 25E., SLB&M

12. COUNTY OR PARISH: SAN JUAN

13. STATE: UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 43.5 MILES TO BLANDING, UTAH

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 781 FNL

16. NO. OF ACRES IN LEASE: N/A

17. NO. OF ACRES ASSIGNED TO THIS WELL: N/A

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 5500'

19. PROPOSED DEPTH: 5860'

20. ROTARY OR CABLE TOOLS: ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5310 GR, 5320 KB

22. APPROX. DATE WORK WILL START*: Nov. 10, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	330	165 SX REG. "G" W/3% CACL.
7-7/8"	5-1/2"	17#	5860	50-50 POZMIX TO BE DETERMINED FROM LOGS

WEXPRO COMPANY PROPOSES TO DRILL THE SUBJECT WELL TO A DEPTH OF 5,860 FEET.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Holly Marie Kuehler TITLE WEXPRO COMPANY TECHNICAL ASSISTANT DATE 10/16/79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

WEXPRO COMPANY
PATTERSON CANYON UNIT WELL NO. 1
LEASE NO.: U-11668
NE 1/4 NW 1/4 Section 5, T.38S., R.25E.
San Juan County, Utah
10 Point Plan

1. The surface formation is Morrison.

2. Estimated tops of important geological markers are:

Morrison	Surface
Entrada	660'
Carmel	830'
Navajo	850'
Chinle	1,440'
Shinarump	2,430'
Moenkopi	2,570'
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Upper Ismay	5,345'
Upper Ismay Porosity	5,520'
Lower Ismay	5,590'
"B" Zone	5,700'
Desert Creek	5,720'
Desert Creek (Lower Bench)	5,770'
Akah	5,820'
Salt	5,855'

Total Depth: **5,860' or 10' into the Salt**

Objective Reservoir: **Upper Ismay Porosity**

3. **Estimated depths of anticipated water, oil, gas or other mineral bearing formations expected:**

   A. **No water flows expected.**
   B. **Oil or gas expected in objective reservoirs (Upper Ismay Porosity 5,520' and Desert Creek (Lower Zone) 5,770'.**
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Proposed	Footage	Size	Grade	Weight	Condition	Thread
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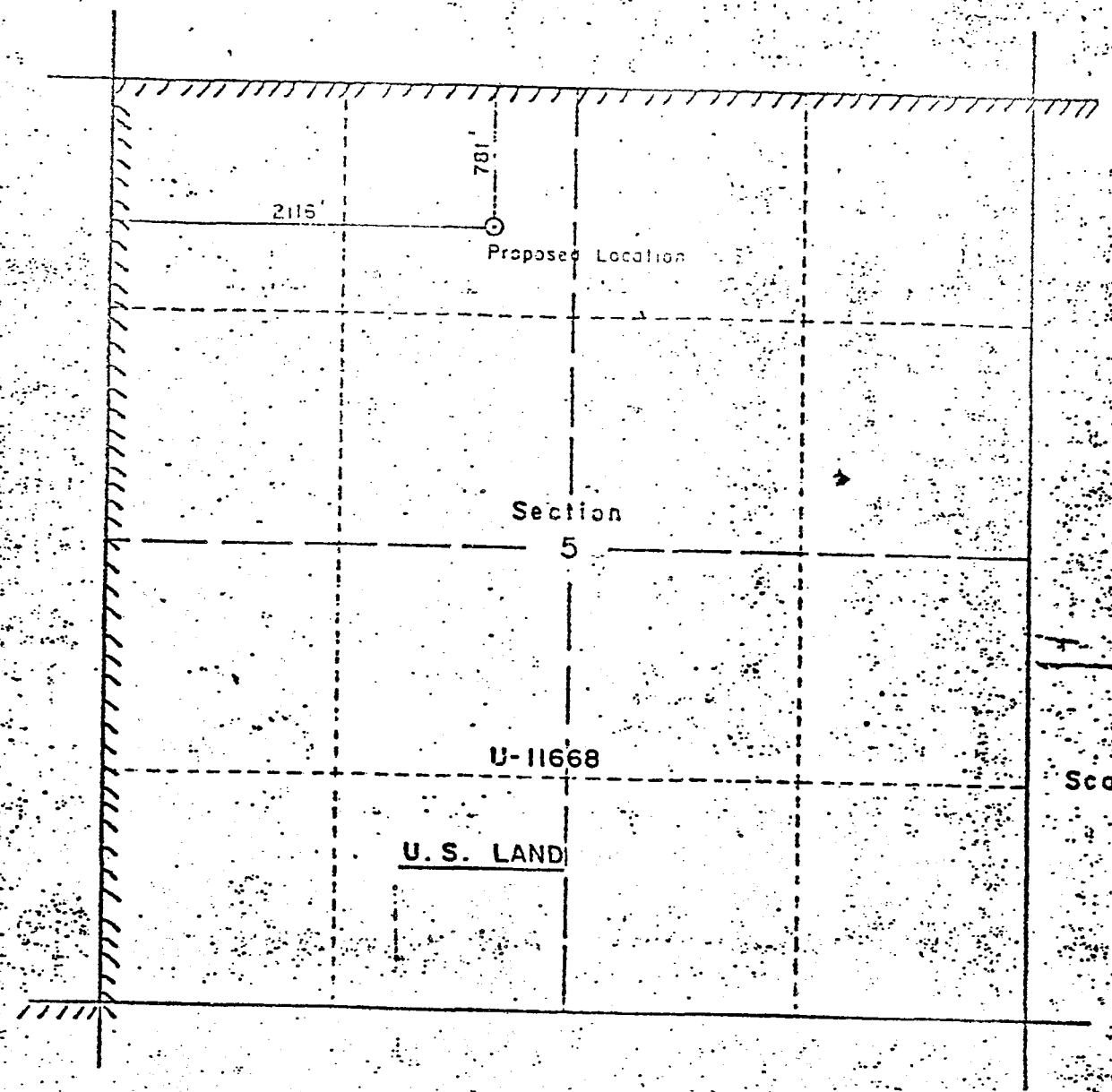

WELL LOCATION: WEXPRO CO. PATTERSON UNIT WELL NO. 1

Located 781 feet South of the North line and 2116 feet East of the West line of Section 5,
Township 38 South Range 25 East Salt Lake Base & Meridian
San Juan Co., Utah
Existing ground elevation determined at 5305 feet based on adjoining locations.

M-14007

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

FREDERICK M REED
Registered Land Surveyor

WEXPRO CO.
Rock Springs, Wyo.

WELL LOCATION PLAT
Patterson Unit Well No. 1
Sec. 5, T 38 S, R 25 E
San Juan Co., Utah

CLARK-REED & ASSOC. DATE: OCT. 5, 19

WEXPRO COMPANY
Patterson Unit, Well #1
Wildcat Field
San Juan County, Utah
(Farmout Agreement)

INDEX

Well File

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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

rev(ide)

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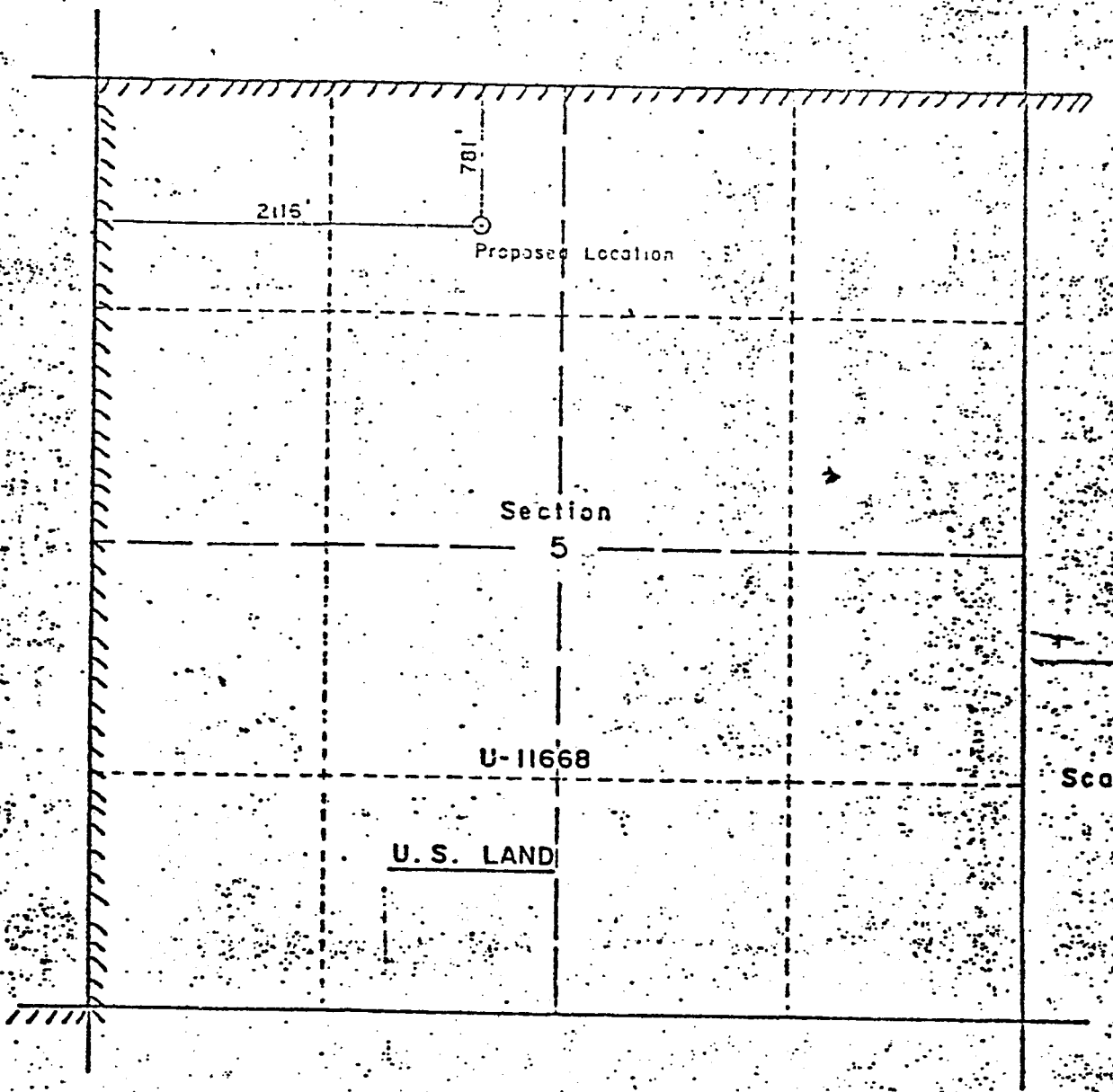

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FREDERICK M REED
Registered Land Surveyor

WEXPRO CO.
Rock Springs, Wyo.

WELL LOCATION PLAT
Patterson Unit Well No.1
Sec. 5, T38S, R25E
San Juan Co., Utah

CLARK-REED & ASSOC. | DATE: OCT. 3, 1979

Patterson Unit #1
San Juan County, Utah
WEXPRO

Daily Progress Report

LOCATION: NE, NW, Sec 15, T38S, R25E
San Juan County, Utah.

12-6: Spud with air on 11-30-79.
Now WO on rig.

LOCATION: NE, NW, Sec 15-T38S-R25I
San Juan County, Utah

12-6: Spud w/air on 11-30-79.
Now WO rig.
2-3: TD 941'(620') Survey: 800-3°.
Lost 600 bbls fluid from 870-910',
worked stuck pipe, pipe stuck when
drlg with wtr & ran out of wtr.
2-4: TD 941'(0') Mud 8.5, visc
39, worked pipe & circ, jarring
on fish.
2-5: TD 941'(0') Mud 8.6, visc
52. Jarring on fish, spotted 36
bbls #2 diesel, LD jars,
ran free point, no movement below
500', blew hole using nitrogen &
pipe came free, C&C mud @ report
time.

(Drlg 3 days)

2-6: TD 1659'(718') Mud 8.6, visc
35. Worked stuck pipe, pipe
came free, now tripping for bit.
Survey: 1467-3/4°.

(Drlg 4 days)

2-7: TD 2354'(695') Mud 8.8, visc
34. Drlg ahead.

(Drlg 5 days)

2-8: TD 3132'(789') Mud 8.7, visc
35. Drlg ahead.

(Drlg 6 days)

2-9: TD 3627'(490') Mud 9.4, visc
32. Survey: 3210-2°. Drlg.
2-10: TD 4045'(418') Mud 9.5, visc
36. Drlg. Survey: 3634-1½°.
2-11: TD 4420'(375') Mud 9.4, visc
32. Drlg ahead.

(Drlg 9 days)

(Drlg 10 days)

2-12: TD 4635'(215') Mud 9.7, visc 34. Survey: 4458-1½°. Tripping for hole in pipe.

(Drlg 11 days)

2-13: TD 4800'(165') Mud 9.8, visc 36. Found 2 holes in DP, now DA.

(Drlg 12 days)

2-14: TD 4942'(142') Mud 10.2, visc 35. Drlg ahead.

(Drlg 13 days)

2-15: TD 5149'(207') Mud 10.2, visc 42. Drlg ahead.

2-16: TD 5314'(165') Mud 10.2, visc 42. Drlg.
2-17: TD 5430'(116') Mud 10.3, visc 41, Drlg.

(Drlg 17 days)

2-18: TD 5531'(78') Mud 10.2, visc 40. Surv: 5508-1°. Took SLM, no correction, cut 23' of core @ report time.
2-19: TD 5568'(37') Mud 10.3, visc 43. Rec 58½' of core, WO tester.

(Drlg 19 days)

2-20 thru 2-21: TD 5568'(0') Drain rig, operations suspended due to weather conditions.

(Drlg 20 days)

2-22: Temporarily drop from report until operations resume. Bad weather conditions.

DROPPED FROM 2-22 due to weather conditions.

3-6: TD 5568'(0') Mud 10.3, visc 41. RU, TIH, cond mud & build volume. Trip out, stuck pipe @ 2517', working stuck pipe.
3-7: TD 5568'(0') Mud 10.2, visc 41, WL 9.6. Worked pipe, WO Nitrogen, injected 18,000 standard cubic ft of nitrogen down tbg. Unloaded hole from 2517', pipe not free, worked in, no movement, pumped mud IH from 2517', WO fishing tool. Drop from report until fishing tool arrives.

(Drlg 21 days)

3-8: TI 5566, Mud 10.2, visc 41. Worked stuck pipe, Ran free pt. Stuck @ 2500'. Backed off @ 2448'. TI & screwed into fish. Jarred loose. Washed & drilling up three bridges @ rpt time.

3-9: TD 5566'(0') Mud 10.2, visc 43. Trip thru tight spot @ 2517' W&R to 2650' C&C hole & mud for DST #1.
3-10: TD 5566'(0') Mud 10.2, visc 38. TI W/DST. Tool stuck. DST #1 (5507'-5568) Initial open 45 mins. Tool Opened strong & slipped dwn hole. Weak blow after making connection. Increased to strong blow.No gas to surface. Rev out & some gas.
3-11: TD 5568'(0') Mud 10.3, visc 44. Jarred on tst tools. Backed off safety jts. Tripped out. Tripped in w/bit #5 C&C mud. Make short trip. No problems. Top of fish @ 5496 pkr @ 5500. Total fish 63'. @ rpt time C&C hole on top of fish.
11-12: TD 5568'(0') Mud 10.3, visc 44. Circ & tirp out. PU overshot jars & bumper subs. Trip in. Circ & work ov over fish. Jarred on fish. Rel overshot. Trip out. PU 2 jts of wash over pipe, jars, bumper sub & trip in.
3-13: TD 5568'(0') mud 10.2, visc 43. PU fishing tools & trip in. Wash over fish. Trip out w/wash over pipe. Tight @ 2530'. Worked thru & tight hole @ 2417'. Trip out. Waiting on KSW.

(Drlg 28 days)

3-14: TD 5568'(2') Mud 10.2, visc 44. WO 3 pt reamer & key seat wiper, trip in, hit bridge @ 2363', fin TIH, came back up & reamed thru key seat wiper with 3 pt reamer from 2404' to 2567'. TOH, TIH with wash pipe.

(Drlg 29 days)

3-15: TD 5568'(0') Mud 10.3, visc 43. Fishing.
3-16: TD 5568'(0') Mud 10.3, visc 42. Fishing.
3-17: TD 5568'(0') Mud 10.2, visc 43. Fishing.
3-18: TD 5602'(34') Mud 10.3, visc 46. Washed over fish, tripped out with fish. Washed 140', reamed to btm, now TOH.

(Drlg 33 days)

3-19: TD 5720'(118') Mud 10.5, visc 48. Drlg. SLM OOH, no correction.

(Drlg 34 days)

3-20: TD 5840'(120') Mud 10.3, visc 47. Drlg ahead.

(Drlg 35 days)

3-21: TD 5588'(48') Mud 10.6, vis 50. SLM, no correction. At repor time logging.

(Drlg 36 days)

3-22: TD 5888'(0') Mud 10.6, visc 50
Landed 5½" csg @ 5187', cmtd with
150 sx. Circ to cmt 2nd stage.
3-23: TD 5888'(0') Cmtd 2nd stage
with 284 sx, rig released on 3-22-80
@ 11:55 PM. TEMPORARILY DROPPED
until operations resume.

(Drlg 39 days)

6-20: NO REPORT
6-21: TD 5915'(0') Mud 9.6, visc
37. Circ, WO plugging order.
LD dc.
6-22: TD 5915'(0') PBTD 1650'.
Seated 5 cmt plugs, now cleaning
mud tanks.
6-23: TD 5915'(0') PBTD 1650'.
Fin cleaning mud tanks, rel rig @
10:00 AM on 6=22-80. FINAL REPORT:
P & A.

Form 9-331C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

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RECEIVED
OCT 18 1979
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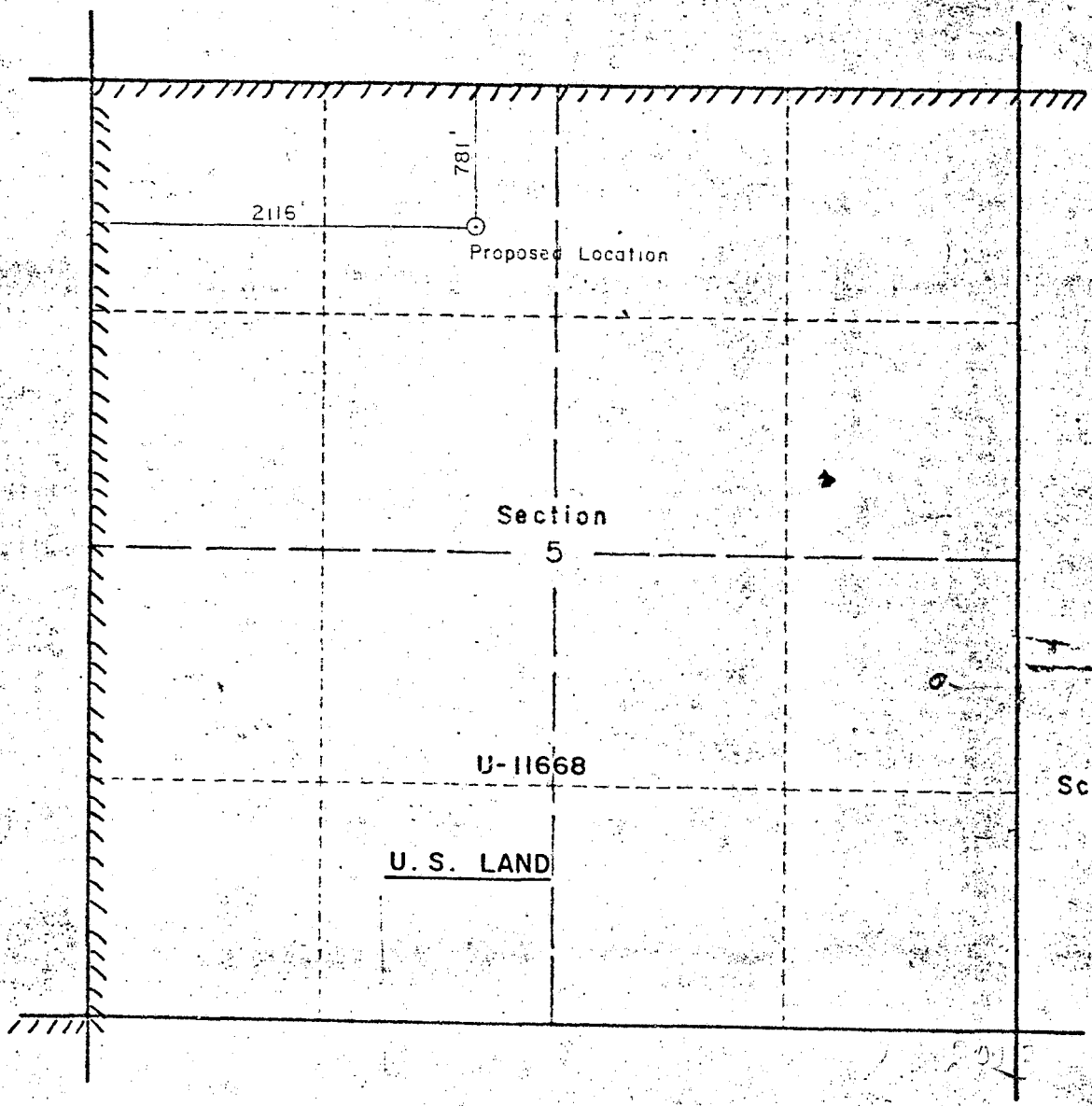

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Durango, Colorado

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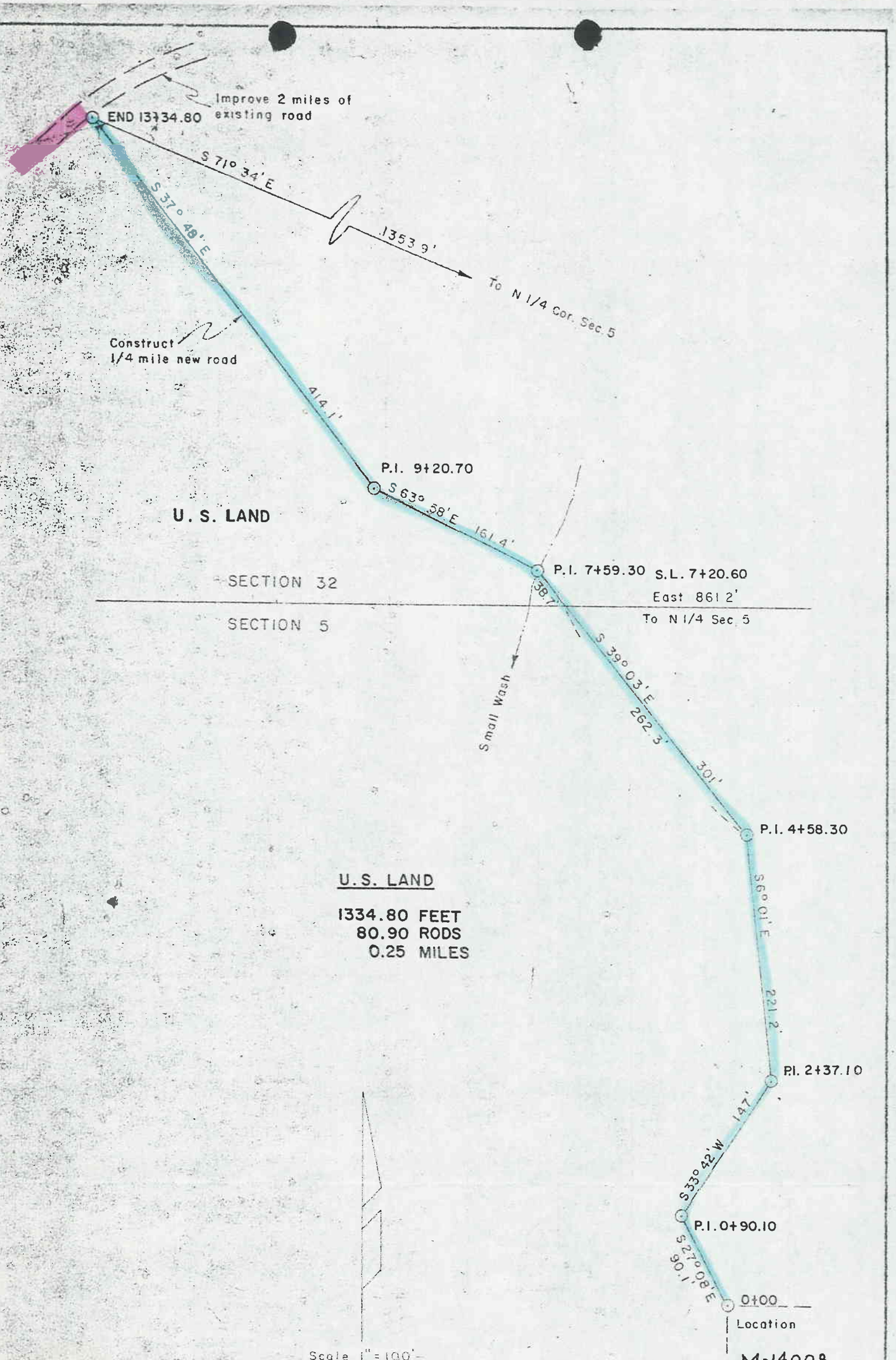
FILE NO: 79079



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ACCESS ROAD
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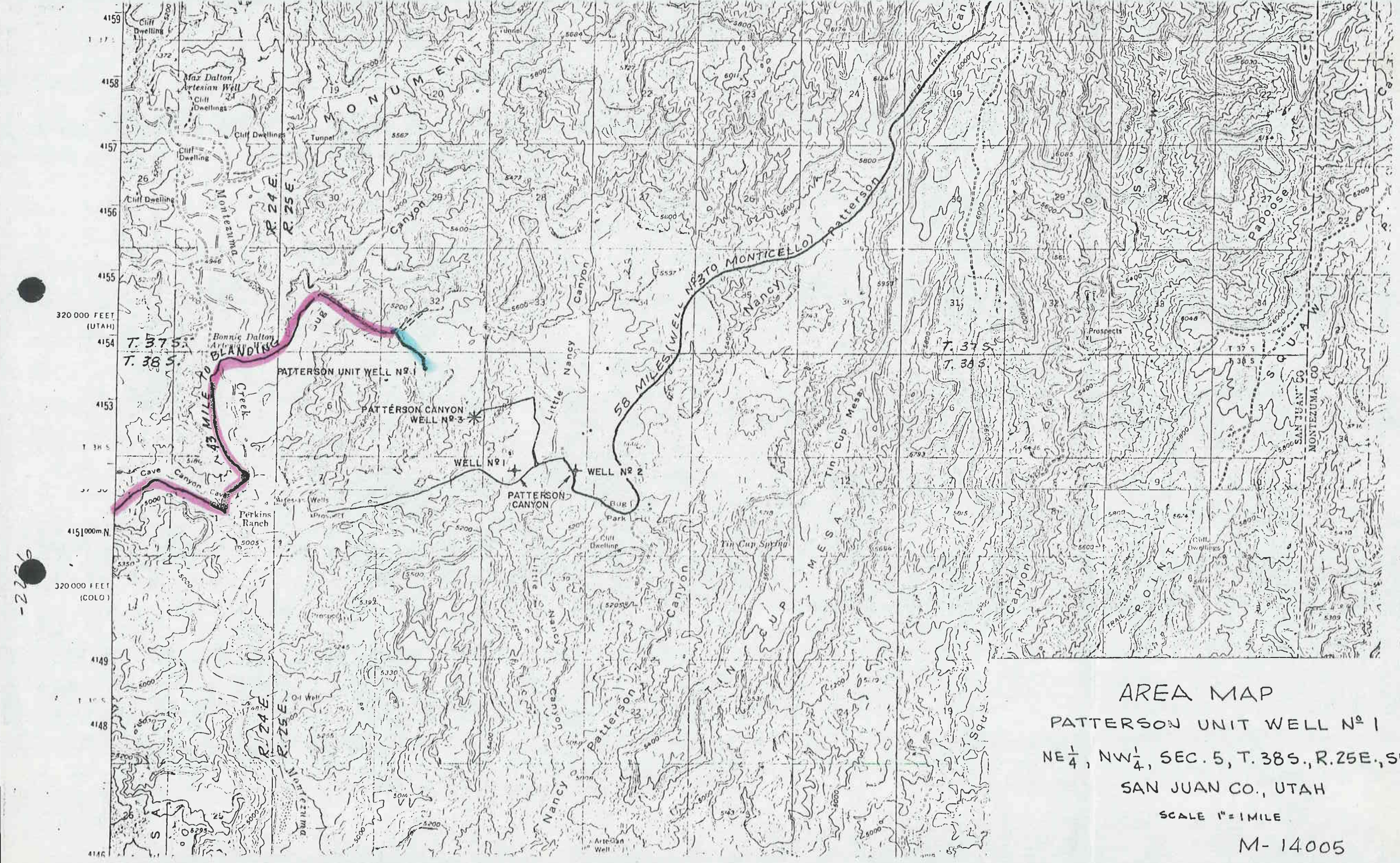

AREA MAP

PATTERSON UNIT WELL Nº 1

NE¼, NW¼, SEC. 5, T. 38S., R. 25E., SLBM

SAN JUAN CO., UTAH

SCALE 1" = 1 MILE

M-14005

-2256

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Surface: 165 sacks regular type "G" cement treated with 3% Calcium Chloride.

Production: 50-50 Pozmix Cement, composition to be determined from caliper logs, with an additional 20%. Salt content of mud will be checked to determine if salt saturated cement will be required.

5. Operator's minimum specifications for pressure control equipment requires a 10-inch, 3000 psi double gate blowout preventer with blind rams in the top and 4-1/2-inch pipe rams in the bottom, and a 6-inch, 5000 psi double gate preventer with blind rams in bottom and 2-7/8" rams in top. See attached diagrams. Blowout preventer will be tested by rig equipment after each string of casing is run.

6. Fresh water with minimum properties from surface to 5,860'. Spud mud will be used for the surface hole. A mud de-sander will be used from under the surface casing to the total depth.

   Sufficient mud materials to maintain mud requirements and to control minor lost circulation and blowout problems will be stored at the well site.

7. Auxiliary equipment will consist of:

   1. A manually operated kelly cock.
   2. No floats at bit.
   3. Mud will be monitored visually from 1600' to the total depth.
   4. Full opening Shafer floor valve manually operated.

8. One drill stem tests - starting at Upper Ismay Porosity 5,510' - 5,570'.
   One 60-feet core in the Upper Ismay 5,510' - 5,570'.

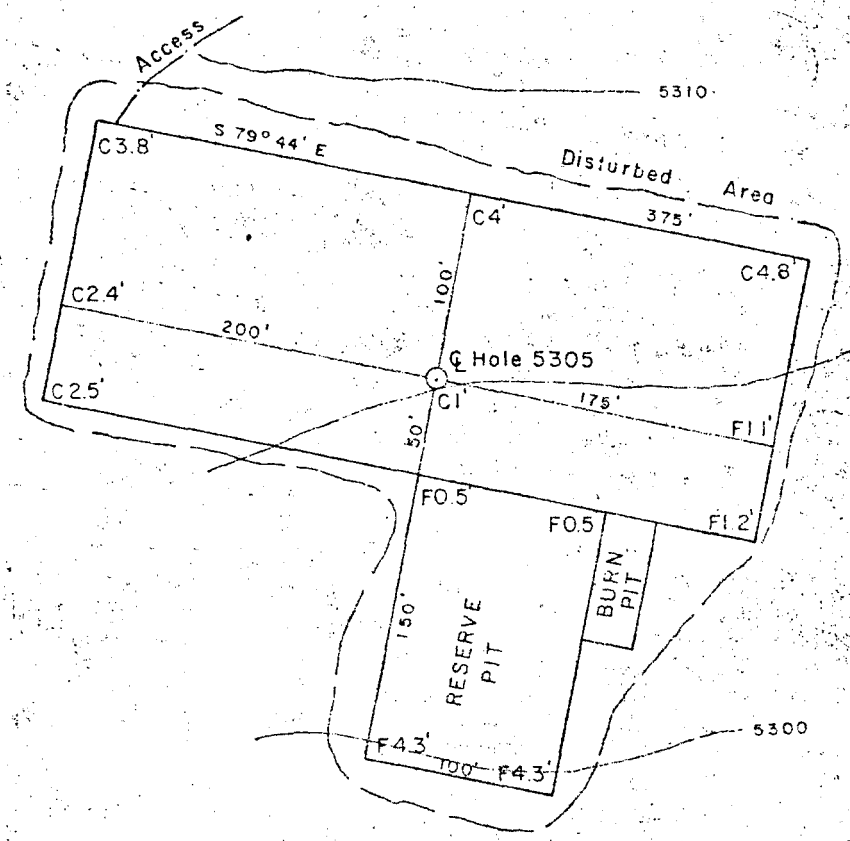
   Mechanical Logs:

   DIL from below surface casing to total depth.
   BCS-GR (integrated) with caliper from surface to total depth
   Sidewall Neutron with Gamma Ray from 4300' to total depth

   No stimulation planned.

   No abnormal temperatures or H_2S is anticipated. No abnormal pressures anticipated.

10. The anticipated spud date is November 10, 1979. Duration of drilling will be approximately 15 days with 2 days completion.



Scale 1" = 100'

M-14006

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief

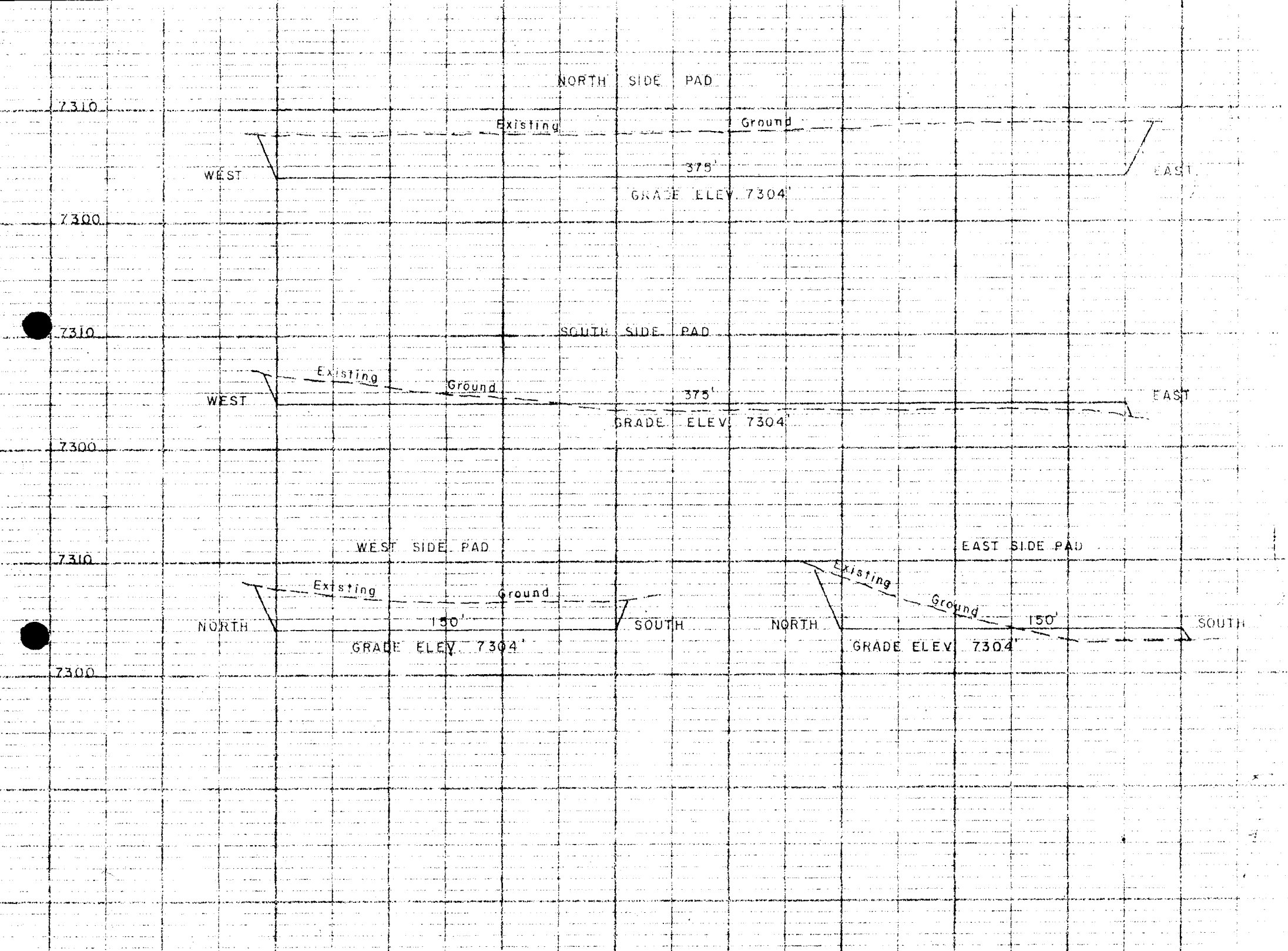
FREDERICK H. REED
Registered Land Surveyor

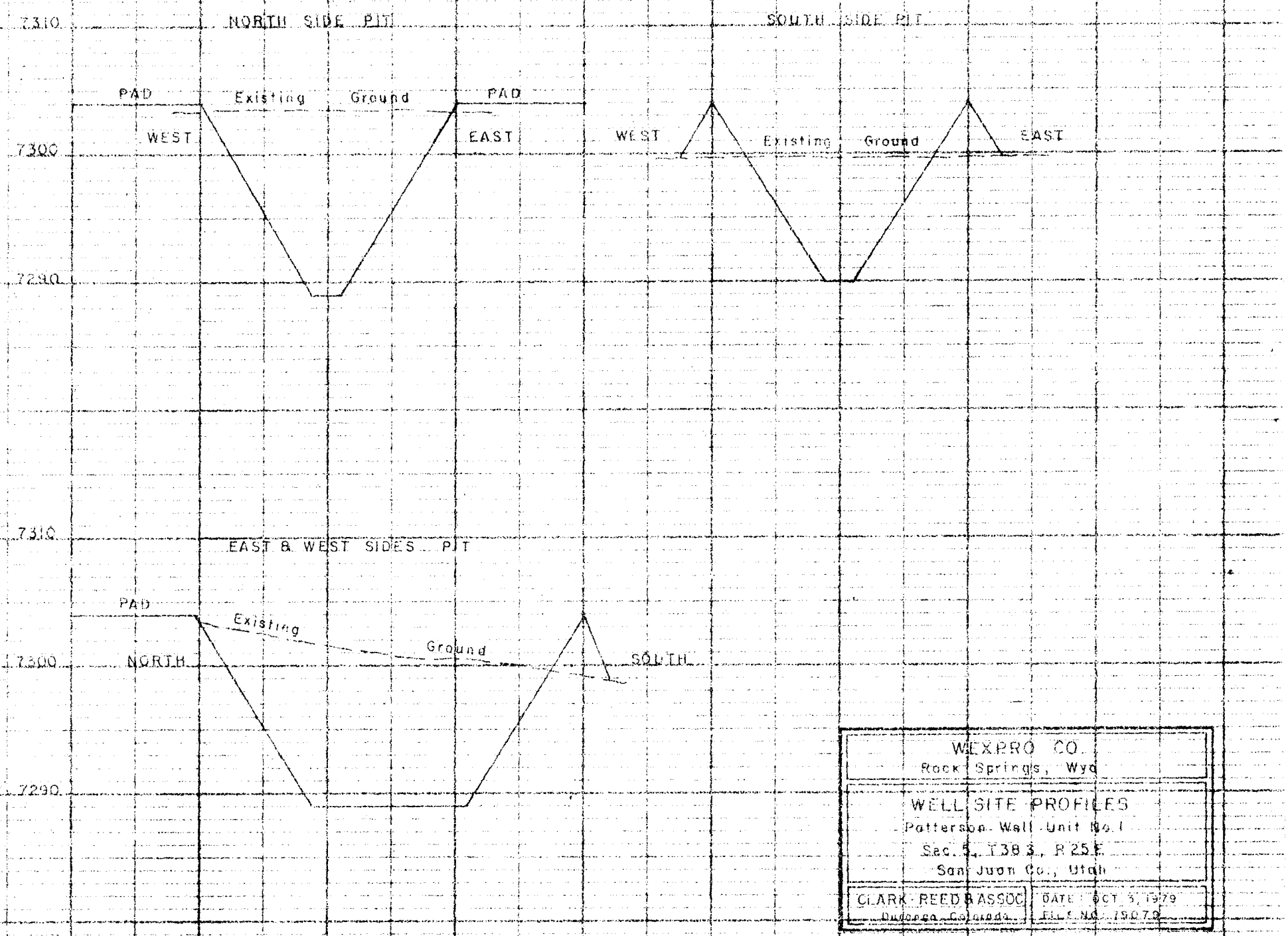
WEXPRO CO.
Rock Springs, Wyo.

WELL SITE PLAN
Patterson Unit Well No. 1
Sec. 5, T38S, R25E
San Juan Co., Utah

CLARK-REED & ASSOC.
Durango, Colorado

DATE: OCT. 3, 1979
FILE NO. 79079


NORTH SIDE PAD
7310
Existing
Ground
WEST
375'
EAST
GRADE ELEV. 7304'
7300
SOUTH SIDE PAD
7310
Existing
Ground
WEST
375'
EAST
GRADE ELEV. 7304'
7300
WEST SIDE PAD
7310
Existing
Ground
NORTH
150'
SOUTH
GRADE ELEV. 7304'
7300
EAST SIDE PAD
Existing
Ground
NORTH
150'
SOUTH
GRADE ELEV. 7304'



WEXPRO CO.
Rock Springs, Wyo.

WELL SITE PROFILES
Patterson Wall Unit No. 1
Sec. 5, T38 S., R 25 E.
San Juan Co., Utah

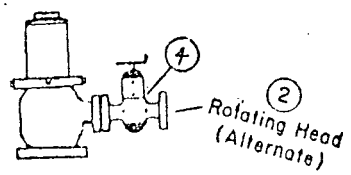
CLARK REED & ASSOC.
Durango, Colorado

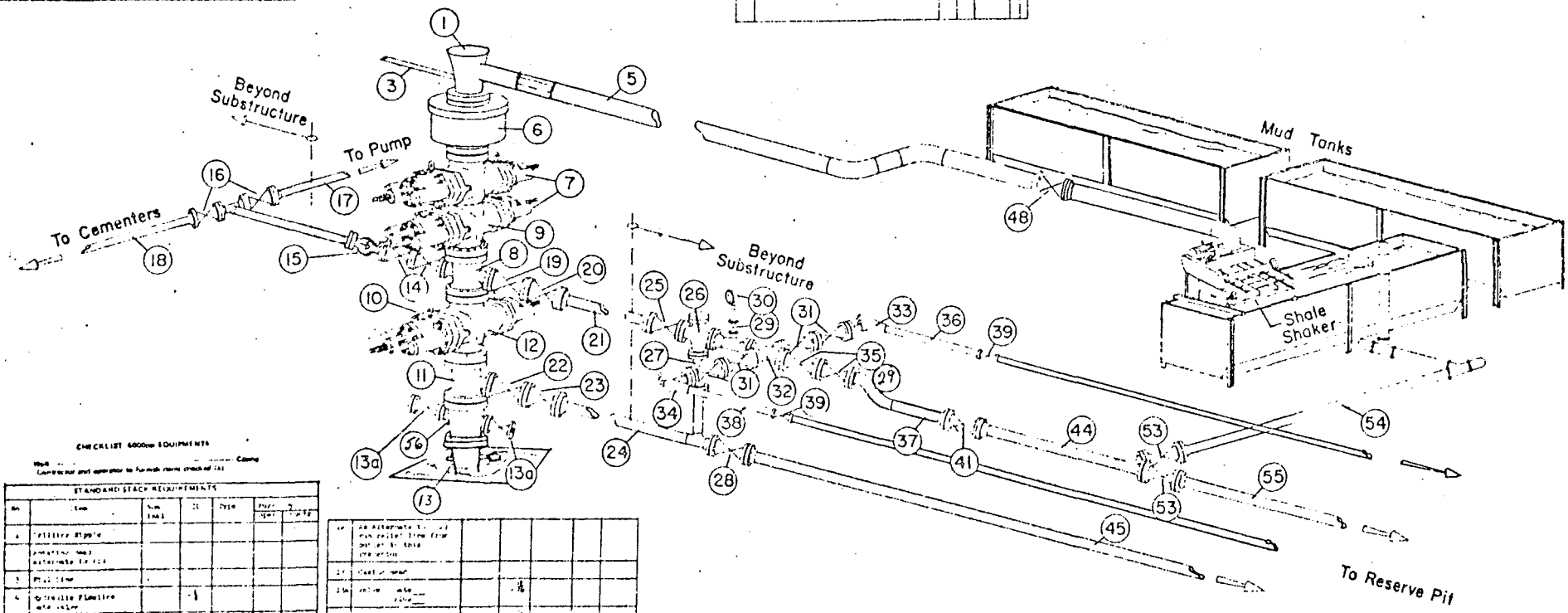
DATE OCT. 3, 1979
FILE NO. 79079

M-14 DO4

MOUNTAIN FUEL SUPPLY COMPANY

5000 psi BLOWOUT PREVENTION EQUIPMENT





MOUNTAIN FUEL SUPPLY COMPANY

3000 psi BLOWOUT PREVENTION EQUIPMENT

CHECKLIST 3000psi EQUIPMENT

We [illegible] Casing

Contractor and operator to furnish items checked (x)

STANDARD STACK REQUIREMENTS

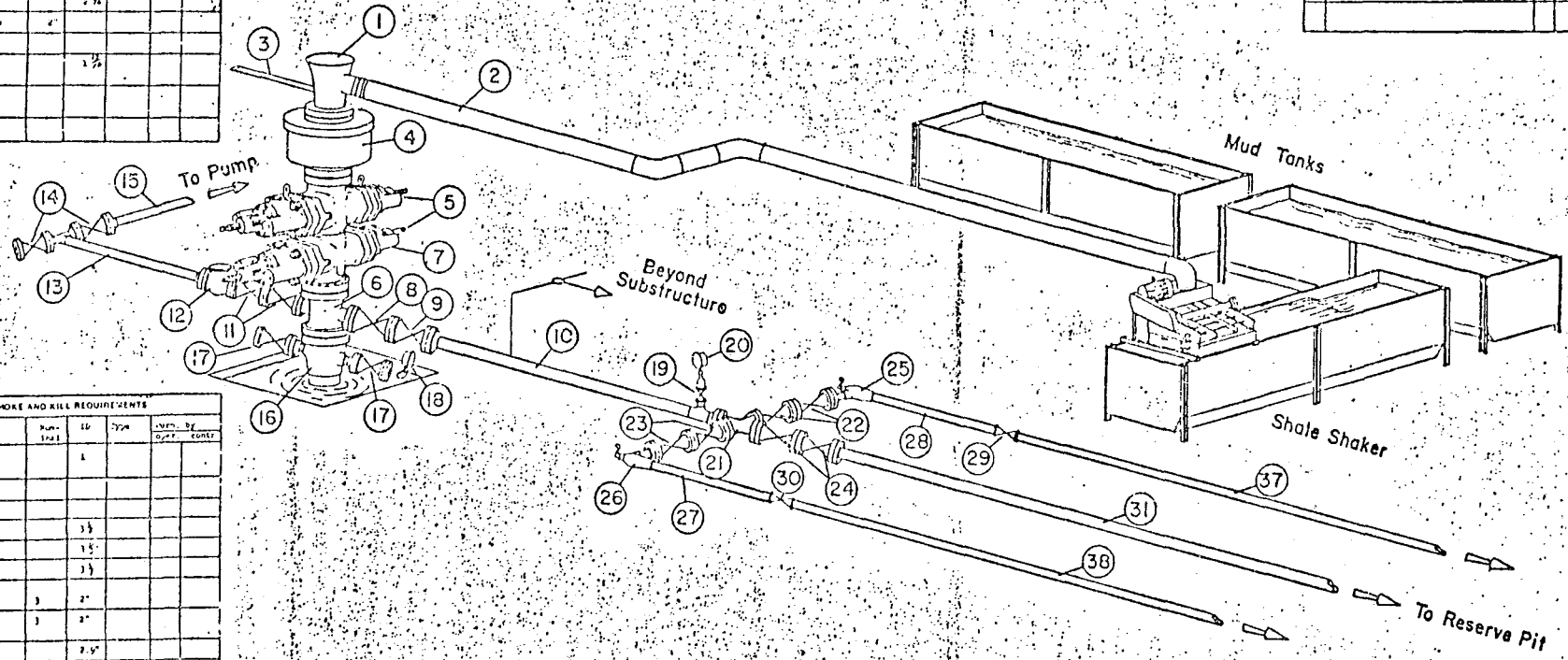
No	Item	Nominal	ID	Type	Furn. by Oper.	Furn. by Contr.
1	Drilling Nipple					
2	Flowline					
3	Fill up Line	2"				
4	Annular Preventer			Hydril Cameron Shaffer		
5	Two single or one dual hyd. oper. rams			U. Hyd. P. Shaf.		
6	Drilling Spool with 2" and 3" outlets			Forged		
7	As Alternate to (6) Run one kill line and one outlets in this req.					
8	Valve Gate		3⅛			
9	Valve-Hydraulically operated Gate		3⅛			
10	Choke Line		2"			
11	Gate Valves		2 9/16			
12	Check Valve		2 9/16			
13	Kill line	2"				
14	Valves-Gate		2 9/16			
15	Kill line to Pump	2"				
16	Casing Head					
17	Valves Gate___ Plug___		1 13/16			
18	Compound Pressure Gage					
	Rear Building					

STANDARD CHOKE AND KILL REQUIREMENTS

No	Item	Nominal	ID	Type	Furn. by Oper.	Furn. by Contr.
19	Valve Gate___ Plug___		3			
20	Compound Pressure					
21	Cross (3"X)					
22	Valve Gate		3⅛			
23	Valve Gate		3⅛			
24	Valve Gate		3⅛			
25	Choke line Adj or equivalent	3	2"			
26	Choke line Adj or equivalent	3	2"			
27	Line to Separator		2.9"			
28	Line to Separator		2.9"			
29	Valve Gate		3⅛			
30	Valves Gate		3⅛			
31	Line to Rec. Pit		2.9"			
37	Line to Rec.		2.9"			
38	Line to Rec. Pit		2.9"			

SPECIAL CHOKE AND KILL REQUIREMENTS

SPECIAL STACK REQUIREMENTS



DEVELOPMENT PLAN FOR U.S.G.S. APPROVAL OF SURFACE USE
WEXPRO DRILLING WELLS

Well Name: Patterson Canyon Unit Well No. 1

Field or Area: San Juan County, Utah

1. Existing Roads:

A) Proposed well site as staked: Refer to well location plat no. M-14007 , well pad layout map no. M-14006 and area map no. M-14005 for location of well, access road, cuts and fills, directional reference stakes, etc.

B) Route and distance from nearest town or locatable reference point to where well access route leaves main road: Refer to area map no. M-13907 From the well to Blanding, Utah is 43.5 miles.

C) Access road to location: Refer to well location plat no. M-14007 and area map no. M-14005 for access road. (Color coded red for existing road and blue for road to be constructed.

D) If exploratory well, all existing roads within a 3-mile radius of well site: Refer to area map M-14005.

E) If development well, all existing roads within a 1-mile radius: Not a development well.

F) Plans for improvement and/or maintenance of existing roads: Refer to access road drawing M-14008. The existing road will require improvement for a length of two miles. The access road will be maintained by Wexpro Company, as needed.

2. Planned Access Road:

A) Width - 16' wide from shoulder to shoulder.

B) Maximum grade - The maximum grade on the road is 8 percent.

C) Turnouts - No turnouts will be constructed.

D) Drainage design - A drainage ditch on the uphill side of the road will be constructed. It will be a minimum of one foot below the surface of the road. No water diversion ditches are anticipated.

E) Location and size of culverts and description of major cuts and fills -

1) No culverts needed.

2) No major cuts or fills required along the entire length of the access road being constructed. Refer to profile drawing for the earth work at the well pad.

F) Surfacing material - None anticipated.

G) Necessary gates, cattle guards or fence cuts - None anticipated.

H) New or reconstructed roads - The new road to be constructed is center line flagged.

3. Location of Existing Wells - Refer to area map no. M- 14005

A) Water wells - Several artesian wells exist, located in Section 24, T.37S., R.24E.; Section 36, T.37S., R.24E., and Section 7, T.38S., R.25E.

B) Abandoned wells - Patterson Canyon Well No. 2 located in Section 9, T.38S., R.25E.

C) Temporarily abandoned wells - None within the area.

D) Disposal wells - None within the area.

E) Drilling wells - None within the area.

F) Producing wells - None within a three mile radius.

G) Shut-in wells - Mountain Fuel Supply Company Patterson Canyon Well No. 3 located in Section 1, T.38S., R.25E.

H) Injection wells - None within the area.

I) Monitoring or observation wells for other resources - None within the area.

4. Location of Existing and/or Proposed Facilities - Refer to area map no. M-14005
A) 1) Tank Batteries - None within a 3 mile radius.

2) Production Facilities - None within a 3 miles radius.

3) Oil Gathering Lines - None within a 3 mile radius.

4) Gas Gathering Lines - None within a 3 mile radius.

5) Injection Lines - None within the area.

6) Disposal Lines - None within the area.

B) 1) Proposed location and attendent lines by flagging if off the well pad - Any production line to produce this well will require an extensive amount of research and engineering to determine the most suitable route. It is beyond the scope of this application to handle the pipeline right-of-way, but the B.L.M. will be consulted before any formal right-of-way application is filed.

2) Dimensions of facilities - Refer to drawing M-14006.

3) Construction methods and materials - The on-location pipelines will be buried approximately 30 inches. The dehydration unit will be a pre-fab unit and will be skid mounted and installed on a gravel base. The tank will have a fire dyke installed around it. The pit will be fenced as described below. Also, the pit will be approximately 7 feet deep.

4) Protective measures and devices to protect livestock and wildlife - All sump pits will be fenced. The fence shall be woven wire at least 48-inches high and within 4-inches of the ground. If oil is in the sump pit, the pit will be overhead flagged to keep birds out.

C) Plans for rehabilitation of disturbed area no longer needed for operations after construction is completed - Areas of none use will be restored and reseeded as recommended by the B.L.M.

5. Location and Type of Water Supply - Refer to area map M-14005
A) Location of Water - Water will be taken from a pond near the artesian wells shown on area map No. M-14005 in Section 7, T.38S., R.25E., San Juan County, Utah.

B) Method of Transporting Water - To be hauled by 100 BBL tank truck over existing access roads.

C) Water Well to be Drilled on Lease - None anticipated.

6. Source of Construction Material - None anticipated.
A) Information - None.

B) Identify if from Federal or Indian land - None.

C) Where materials are to be obtained and used - None.

D) Access roads crossing Federal or Indian lands - None.

7. Method for Handling Waste Disposal -
A-D) Cuttings and drilling fluids will be placed in the mud pit. Any produced liquids will be placed in test tanks and hauled out by tank trucks. A chemical toilet will be installed on the well pad. The mud pit shall be constructed with at least 1/2 of its holding capacity below ground level. It shall be fenced as described in Section 10-A.

E) Garbage and other waste material will be placed in the burn pit and covered over with wire mesh to contain the garbage.

F) After drilling operations have been completed, the location will be cleared of litter, and the trash will be burned in the burn pit. The burn pit will be covered over. The mud pit liquids will be allowed to evaporate. Any fill material on the mud pit will be compacted with heavy equipment.

8. Ancillary Facilities - No camps or airstrips exist now, and Wexpro Company has no plans to build them.

9. Well Site Layout - Refer to drawing no. M- 14006
1) Refer to drawing no. M- 14004 for cross section of drill pad and mud pit with cuts and fills.

2, 3) Refer to the location plat for location of mud tanks, reserve pit, burn pit, pipe racks, living facilities, soil material stockpile, rig orientation, parking areas and access roads.

4) The mud pit is to be unlined.

10. Plans for Restoration of Surface -
A) After drilling operations, the well site will be cleared and cleaned and the burn pit filled in. Should the well be a dry hole, the surface will be restored to the extent that it will blend in with the landscape. Prior to the onset of drilling, the mud pit shall be fenced on three sides. Immediately upon completion of drilling, the fourth side of the pit will be fenced. The fence will be maintained until restoration.

B) Revegetation and rehabilitation of the location and access road will be done to comply with Bureau of Land Management recommendations.

C) Prior to rig release, pits will be fenced and so maintained until clean up. The trash pit will be dug so when filled, the depth will be at least three-feet below the finished contour of the location.

D) If oil is in the mud pit, overhead flagging will be installed to keep birds out.

E) Clean up will begin within two months after drilling operations have been completed and the land will be restored at this time.

11. Other Information -

A) The location lies on a ridge between 2 large and steep drainages. The soil is sandy with sandstone outcrops. The vegetation is juniper trees and native grass. The access road bears northeasterly more or less. The soil conditions described above are similar for the access road for approximately the first 2800'. The next 1800' is sandy soil, salt sage, sagebrush & native grass. The remainder of the access road traverses through cultivated fields.

B) The surface at the well site is U. S. Government.

C) No major source of water exists within the area. No historical or cultural sites exist to my knowledge.

12. Lessee's or Operator's Representative -

A. J. Maser, Drilling Superintendent, P. O. Box 1129, Rock Springs, Wyoming 82901, Telephone No. 307-362-5611.

13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Wexpro Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date 10/16/79

Name A. J. Maser

Title Drilling Superintendent

** FILE NOTATIONS **

DATE: October 19, 1979

Operator: Wexpro Company

Well No: Patterson Unit #1

Location: Sec. 5 T. 38S R. 25E County: San Juan

File Prepared: ✓ Entered on N.I.D.: ✓

Card Indexed: ✓ Completion Sheet: ✓

✓ API Number 43-037-30510

CHECKED BY:

Geological Engineer: _____

Petroleum Engineer: _____

Director: OK

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐

Order No. _____ O.K. Rule C-3 ✓

#1 Rule C-3(c), Topographic Exception/company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation Fed + unit not approved yet Plotted on Map ✓

Approval Letter Written ✓ ltw

wl PI

October 22, 1979

Wexpro Company
P.O. Box 1129
Rock Springs, Wyoming 82901

Re: Well No. Patterson Unit #1
Sec. 5, T. 38S, R. 25E.,
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 876--001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30510.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

/btm

cc: USGS

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Wexpro Company

3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NE NW 781' FNL, 2116' FEL

5. LEASE DESIGNATION AND SERIAL NO.
U - 11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
Patterson

8. FARM OR LEASE NAME
Unit Well

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
5-38S-25E., SLB&M

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. PERMIT NO.
-

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 5305' KB 5318.70'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other)				(Other) Supplementary History			X

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

TD 941', bit stuck at 910'. Began drilling at 8:00 a.m. on 2-2-80.

18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Mazer TITLE Drilling Supt. DATE Feb. 5, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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8. FARM OR LEASE NAME: Unit Well

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5-38S-25E., SLB&M

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.: -

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RECEIVED
FEB 08 1980
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OIL, GAS & MINING

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7. UNIT AGREEMENT NAME: Patterson

2. NAME OF OPERATOR: Wexpro Company

8. FARM OR LEASE NAME: Unit Well

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SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Supplementary History			☒
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Depth 5149', drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Mauer TITLE Drilling Supt. DATE Feb. 15, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Patterson #1

Core #1 (5508-5568) cut 60' Rec 58 1/2'

5508-5509 (Sh: blk w/ abn anhydrite nodules.)
5509-55-19 (Sh: blk, platey, no fossils w/ some odor
5519-5566.5 (Ls: gry to brn., f xln, Dolomitize
Dol: brn, fxln: porosity is Inter xls, w/ some small vugs
Ls & Dol: some anhydrite replacement nodules
Ls & Dol: modely oil stain w/ yellow Fluro. and cut

Two brlg break 5516-23 7' (10min - 8min - 10min)
(10-100-10 units)
5532-43 11' (10min - 2½ - 5 - 10min) (10 - 70 - 10 units

Base of Second Shale 5488 (-170) 10' high to #3 well

Bottom of core #1 : 10' below the owc of the #3 well
(-241')

Bottom of core #1 good stain, Fluro, and cut.

DST #1 from 5506 to TD

Remark going to shut well in for week to built road and better weather

SHOW REPORT

WELL Patterson #1 AREA _____ CO. _____ STATE _____

SHOW NO. #2 from 5532 to 43 P.T.D. _____

DRILLING BREAK _____ from _____ to _____

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER _____
% ( ) (50) (50) ( ) ( )
Remarks _____

POROSITY: (Matrix) Est. % 8%
(Fracture) Evidence for fracturing _____

STAIN: Even, Patchy, Pin Point, Live oil (Other)
Light, Dark, "Live", "Dead"
% in total cuttings _____; % in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color yellow ; % in total ctgs 95

CUT (Chlorothene): yes

PERIOD	DT	MUD GAS UNITS	CUTTINGS GAS UNITS	GAS CHROMATOGRAPH C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	10	10		600	2611	68	62	—			
During	2½-5	70		5000	1650	510	620	—			
After	340	10		3200	1100	450	500	—			

RECOGNIZED BY: _____ Time _____ A.M. P.M. Date _____

CALLED _____ Time _____ A.M. P.M. Date _____

REMARKS: Anhydrite in fill 5% samples

SHOW REPORT

WELL Patterson #1 AREA _____ CO. _____ STATE _____

SHOW NO. #1 from 5516 to 5523 P.T.D. _____

DRILLING BREAK _____ from _____ to _____

LITHOLOGY: Type - SS LS DOLO SH SLTSTN OTHER _____
% ( ) (50) (50) ( ) ( )
Remarks _____

POROSITY: (Matrix) Est. % 8% _____
(Fracture) Evidence for fracturing Sli fractures _____

STAIN: Even, Patchy, Pin Point, Live oil (Other)
Light, Dark, "Live", "Dead"
% in total cuttings _____ ;% in prob. reservoir lithology _____
Stain on fracture faces _____

FLUORESCENCE: Color yellow ; % in total ctgs 95%

CUT (Chlorothene): yes _____

PERIOD	DT	MUD GAS	CUTTINGS GAS	GAS CHROMATOGRAPH							
		UNITS	UNITS	C_1	C_2	C_3	C_4	C_5	C_6	CO_2	Etc.
Before	10	10		600	264	68	62	—			
During	8	100		7000	2240	680	930	—			
After	10	10		600	264	68	62	—			

RECOGNIZED BY: _____ Time _____ A.M. P.M. Date _____

CALLED _____ Time _____ A.M. P.M. Date _____

REMARKS: Anhydrite in 1/1 5 % of samples

Last night additional 10" of snow, at Doug Creek
mud Logger on stand by until tester get on location

Ls & Dol non fossiliferous compare to #3 well
which had crinoid fossil bank.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW 781' FNL, 2116' FEL

5. LEASE DESIGNATION AND SERIAL NO.: U - 11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: Patterson

8. FARM OR LEASE NAME: Unit Well

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5-38S-25E., SLB&M

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.: -

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 5305' KB 5318.70'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Supplementary History			X
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Depth 5149', drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Mauer TITLE Drilling Supt. DATE Feb. 15, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

CORE ANALYSIS RESULTS FOR

WEXPRO COMPANY

PATTERSON UNIT NO. 1

PATTERSON FIELD

SAN JUAN COUNTY, UTAH

WEXPRO COMPANY
PATTERSON UNIT NO. 1
PATTERSON FIELD
SAN JUAN COUNTY

FORMATION : UPPER ISMAY
DRLG. FLUID: WATER BASE MUD
LOCATION : NE NW SEC. 5-T38S-R25E
STATE : UTAH

DATE : 2-18-80
FILE NO. : RP-3-2960
ANALYSTS : GG
ELEVATION: 5318' KB

WHOLE CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	PERM. TO AIR (MD) 90 DEG.	POR. FLD.	FLUID SATS. OIL	FLUID SATS. WATER	GR. DNS.	DESCRIPTION
	5508-5509							ANHYDRITE - NO ANALYSIS
	5509-5519							SHALE - NO ANALYSIS
1	5519-20	3.8	3.0	1.9	0.0	10.5		LM, LT GY FN-XLN
2	5520-21	0.30	0.30	9.5	0.0	10.5	HF	LM, LT GY FN-XLN
3	5521-22	9.4	3.4	5.1	0.0	13.7	HF	LM, LT GY FN-XLN
4	5522-23	0.20	0.10	0.8	0.0	25.0	HF	LM, LT GY FN-XLN
5	5523-24	* 0.10	*	0.7	0.0	57.1	HF	LM, LT GY FN-XLN
6	5524-25	0.30	0.10	2.1	0.0	38.1		DOL, LM LT GY FN-XLN
7	5525-26	2.1	1.0	2.6	0.0	50.0		DOL, LM LT GY FN-XLN
8	5526-27	* 0.50	*	17.1	8.8	31.6		DOL, LM LT GY FN-XLN
9	5527-28	1.0	0.80	12.8	10.9	24.2		DOL, LM LT GY FN-XLN
10	5528-29	208	1.6	4.9	0.0	24.5	VF	DOL, LM LT GY FN-XLN
11	5529-30	0.10	0.10	0.6	0.0	66.7		DOL, LM LT GY FN-XLN
12	5530-31	7.3	0.70	0.8	0.0	50.0		DOL, LM LT GY FN-XLN VGY
13	5531-32	0.40	0.30	10.2	0.0	51.0		DOL, LM LT GY FN-XLN VGY
14	5532-33	0.40	0.30	7.8	0.0	50.0		DOL, LM LT GY FN-XLN VGY
15	5533-34	1.0	0.90	16.9	0.0	26.0		DOL, LM LT GY FN-XLN VGY
16	5534-35	4.8	4.4	10.4	0.0	64.4		DOL, LM LT GY FN-XLN VGY
17	5535-36	1.6	1.6	14.4	3.5	54.2		DOL, LM LT GY FN-XLN VGY
18	5536-37	2.6	2.0	13.2	6.8	54.5		DOL, LM LT GY FN-XLN VGY
19	5537-38	4.4	3.7	15.2	5.3	48.0		DOL, LM LT GY FN-XLN VGY
20	5538-39	4.0	3.4	14.7	4.1	50.3		DOL, LM MED-GY FN-XLN VGY
21	5539-40	6.3	5.5	17.3	8.7	53.2		DOL, LM MED-GY FN-XLN VGY
22	5540-41	12	9.2	18.0	8.3	53.3	VF	DOL, LM MED-GY FN-XLN VGY
23	5541-42	8.0	6.6	12.2	9.8	50.8		DOL, LM MED-GY FN-XLN VGY

HF & VF = HORIZONTAL & VERTICAL FRACTURE
*UNSUITABLE FOR WHOLE CORE PERMEABILITY

WEXPRO COMPANY
PATTERSON UNIT NO. 1
PATTERSON FIELD
SAN JUAN COUNTY

FORMATION : UPPER ISMAY
DRLG. FLUID: WATER BASE MUD
LOCATION : NE NW SEC. 5-T38S-R25E
STATE : UTAH

DATE : 2-18-80
FILE NO. : RP-3-2960
ANALYSTS : GG
ELEVATION: 5318' KB

WHOLE CORE ANALYSIS

SAMP. NO.	DEPTH	PERM. TO AIR (MD) MAX.	PERM. TO AIR (MD) 90 DEG.	POR. FLD.	FLUID SATS. OIL	FLUID SATS. WATER	GR. DNS.		DESCRIPTION
24	5542-43	9.6	9.6	18.0	8.9	48.3			DOL, LM MED-GY FN-XLN VGY
25	5543-44	18	17	9.6	17.6	46.4			DOL, LM MED-GY FN-XLN VGY
26	5544-45	12	12	9.5	13.7	48.4			DOL, LM MED-GY FN-XLN VGY
27	5545-46	* 95	*	10.1	12.9	45.5		HF	DOL, LM MED-GY FN-XLN VGY
28	5546-47	7.5	6.7	13.9	8.6	31.7			DOL, LM MED-GY FN-XLN VGY
29	5547-48	4.9	4.1	12.9	9.3	31.0			DOL, LM MED-GY FN-XLN VGY
30	5548-49	3.5	2.6	8.7	8.0	46.0			DOL, LM MED-GY FN-XLN VGY
31	5549-50	1.1	0.70	10.2	6.9	33.3			DOL, LM MED-GY FN-XLN VGY
32	5550-51	2.3	1.5	9.0	7.8	48.9			DOL, LM MED-GY FN-XLN VGY
33	5551-52	4.8	4.5	12.4	9.7	31.5			DOL, LM MED-GY FN-XLN VGY
34	5552-53	6.7	5.9	6.6	15.2	57.6			DOL, LM MED-GY FN-XLN VGY
35	5553-54	3.7	3.7	7.5	13.3	33.3			DOL, LM MED-GY FN-XLN VGY
36	5554-55	154	154	10.1	11.9	37.8		HF	DOL, LM MED-GY FN-XLN VGY
37	5555-56	2.6	2.5	9.8	12.2	30.6			DOL, LM MED-GY FN-XLN VGY
38	5556-57	8.3	6.2	7.9	12.7	43.0			DOL, LM MED-GY FN-XLN VGY
39	5557-58	6.5	6.4	8.6	10.5	29.1			DOL, LM MED-GY FN-XLN VGY
40	5558-59	7.2	7.2	12.3	9.8	31.7			DOL, LM MED-GY FN-XLN VGY
41	5559-60	4.4	4.3	12.4	7.3	33.9			DOL, LM MED-GY FN-XLN VGY
42	5560-61	6.2	5.1	13.6	6.6	47.1			DOL, LM MED-GY FN-XLN VGY
43	5561-62	6.7	6.2	14.9	8.1	51.7			DOL, LM MED-GY FN-XLN VGY
44	5562-63	8.4	7.7	10.0	10.0	55.0			DOL, LM MED-GY FN-XLN VGY
45	5563-64	* 11	*	9.6	5.2	36.5			DOL, LM MED-GY FN-XLN VGY
46	5564-65	11	9.9	8.4	6.0	27.4			DOL, LM MED-GY FN-XLN VGY
47	5565-66	13	13	18.2	6.0	47.8			DOL, LM MED-GY FN-XLN VGY
	5566-5568								NOT RECOVERED

HF = HORIZONTAL FRACTURE
*UNSUITABLE FOR WHOLE CORE PERMEABILITY

CORE ANALYSIS RESULTS FOR

WEXPRO COMPANY

PATTERSON UNIT NO. 1

PATTERSON FIELD

SAN JUAN COUNTY, UTAH

43-037-30510

WEXPRO COMPANY
PATTERSON UNIT NO. 1
PATTERSON FIELD
SAN JUAN COUNTY

FORMATION : UPPER ISMAY
DRLG. FLUID: WATER BASE MUD
LOCATION : NE NW SEC 5-38S-25E
STATE : UTAH

DATE : 2-18-80
FILE NO. : RP-3-2960
ANALYSTS : GG
ELEVATION: 5318 KB

WHOLE CORE ANALYSIS - BOYLE'S LAW HELIUM POROSITY
JOB RE-ISSUED WITH BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION
24	5542-43	9.6	9.6	15.5	8.9	48.3		DOLO LM MED GY FN XLN VGY
25	5543-44	18	17	18.4	17.6	46.4		DOLO LM MED GY FN XLN VGY
26	5544-45	12	12	16.2	13.7	48.4		DOLO LM MED GY FN XLN VGY
27	5545-46	*95	*	16.5	12.9	45.5	HF	DOLO LM MED GY FN XLN VGY
28	5546-47	7.5	6.7	15.1	8.6	31.7		DOLO LM MED GY FN XLN VGY
29	5547-48	4.9	4.1	11.4	9.3	31.0		DOLO LM MED GY FN XLN VGY
30	5548-49	3.5	2.6	10.5	8.0	46.0		DOLO LM MED GY FN XLN VGY
31	5549-50	1.1	0.70	9.5	6.9	33.3		DOLO LM MED GY FN XLN VGY
32	5550-51	2.3	1.5	11.2	7.8	48.9		DOLO LM MED GY FN XLN VGY
33	5551-52	4.8	4.5	11.4	9.7	31.5		DOLO LM MED GY FN XLN VGY
34	5552-53	6.7	5.9	11.7	15.2	57.6		DOLO LM MED GY FN XLN VGY
35	5553-54	3.7	3.7	10.1	13.3	33.3		DOLO LM MED GY FN XLN VGY
36	5554-55	154	154	10.8	11.9	37.8	HF	DOLO LM MED GY FN XLN VGY
37	5555-56	2.6	2.5	11.1	12.2	30.6		DOLO LM MED GY FN XLN VGY
38	5556-57	8.3	6.2	12.5	12.7	43.0		DOLO LM MED GY FN XLN VGY
39	5557-58	6.5	6.4	12.3	10.5	29.1		DOLO LM MED GY FN XLN VGY
40	5558-59	7.2	7.2	12.5	9.8	31.7		DOLO LM MED GY FN XLN VGY
41	5559-60	4.4	4.3	12.1	7.3	33.9		DOLO LM MED GY FN XLN VGY
42	5560-61	6.2	5.1	14.1	6.6	47.1		DOLO LM MED GY FN XLN VGY
43	5561-62	6.7	6.2	16.3	8.1	51.7		DOLO LM MED GY FN XLN VGY
44	5562-63	8.4	7.7	15.8	10.0	55.0		DOLO LM MED GY FN XLN VGY
45	5563-64	*11	*	17.6	5.2	36.5		DOLO LM MED GY FN XLN VGY
46	5564-65	11	9.9	17.0	6.0	27.4		DOLO LM MED GY FN XLN VGY
47	5565-66	13	13	17.9	6.0	47.8		DOLO LM MED GY FN XLN VGY
	5566-5568							NOT RECOVERED

HF = HORIZONTAL FRACTURE

*UNSUITABLE FOR WHOLE CORE PERMEABILITY

WEXPRO COMPANY
PATTERSON UNIT NO. 1
PATTERSON FIELD
SAN JUAN COUNTY

FORMATION : UPPER ISMAY
DRLG. FLUID: WATER BASE MUD
LOCATION : NE NW SEC 5-38S-25E
STATE : UTAH

DATE : 2-18-80
FILE NO. : RP-3-2960
ANALYSTS : GG
ELEVATION: 5318 KB

WHOLE CORE ANALYSIS - BOYLE'S LAW HELIUM POROSITY
JOB RE-ISSUED WITH BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD) HORZ.	VERTICAL	POR. B.L.	FLUID SATS. OIL	WATER	GR. DNS.	DESCRIPTION
	5508-5509							ANHYDRITE-NO ANALYSIS
	5509-5519							SHALE-NO ANALYSIS
1	5519-20	3.8	3.0	4.1	0.0	10.5		LM LT GY FN XLN
2	5520-21	0.30	0.30	7.0	0.0	10.5	HF	LM LT GY FN XLN
3	5521-22	9.4	3.4	7.0	0.0	13.7	HF	LM LT GY FN XLN
4	5522-23	0.20	0.10	5.0	0.0	25.0	HF	LM LT GY FN XLN
5	5523-24	*0.10	*	0.7	0.0	57.1	HF	LM LT GY FN XLN
6	5524-25	0.30	0.10	3.4	0.0	38.1		DOLO LM LT GY FN XLN
7	5525-26	2.1	1.0	9.9	0.0	50.0		DOLO LM LT GY FN XLN
8	5526-27	*0.50	*	17.1	8.8	31.6		DOLO LM LT GY FN XLN
9	5527-28	1.0	0.80	11.9	10.9	24.2		DOLO LM LT GY FN XLN
10	5528-29	208	1.6	5.8	0.0	24.5	VF	DOLO LM LT GY FN XLN
11	5529-30	0.10	0.10	3.5	0.0	66.7		DOLO LM LT GY FN XLN
12	5530-31	7.3	0.70	4.0	0.0	50.0		DOLO LM LT GY FN XLN VGY
13	5531-32	0.40	0.30	9.1	0.0	51.0		DOLO LM LT GY FN XLN VGY
14	5532-33	0.40	0.30	9.0	0.0	50.0		DOLO LM LT GY FN XLN VGY
15	5533-34	1.0	0.90	9.6	0.0	26.0		DOLO LM LT GY FN XLN VGY
16	5534-35	4.8	4.4	14.0	0.0	64.4		DOLO LM LT GY FN XLN VGY
17	5535-36	1.6	1.6	12.6	3.5	54.2		DOLO LM LT GY FN XLN VGY
18	5536-37	2.6	2.0	14.2	6.8	54.5		DOLO LM LT GY FN XLN VGY
19	5537-38	4.4	3.7	15.0	5.3	48.0		DOLO LM LT GY FN XLN VGY
20	5538-39	4.0	3.4	15.1	4.1	50.3		DOLO LM MED GY FN XLN VGY
21	5539-40	6.3	5.5	16.4	8.7	53.2		DOLO LM MED GY FN XLN VGY
22	5540-41	12	9.2	15.7	8.3	53.3	VF	DOLO LM MED GY FN XLN VGY
23	5541-42	8.0	6.6	15.9	9.8	50.8		DOLO LM MED GY FN XLN VGY

CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY	WEXPRO COMPANY	FIELD	PATTERSON	FILE	RP-3-2960
WELL	PATTERSON UNIT NO. 1	COUNTY	SAN JUAN	DATE	2-18-80
LOCATION	NE NW SEC 5-38S-25E	STATE	UTAH	ELEV.	5318 KB

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG
(PATENT APPLIED FOR)

GAMMA RAY
RADIATION INCREASE →

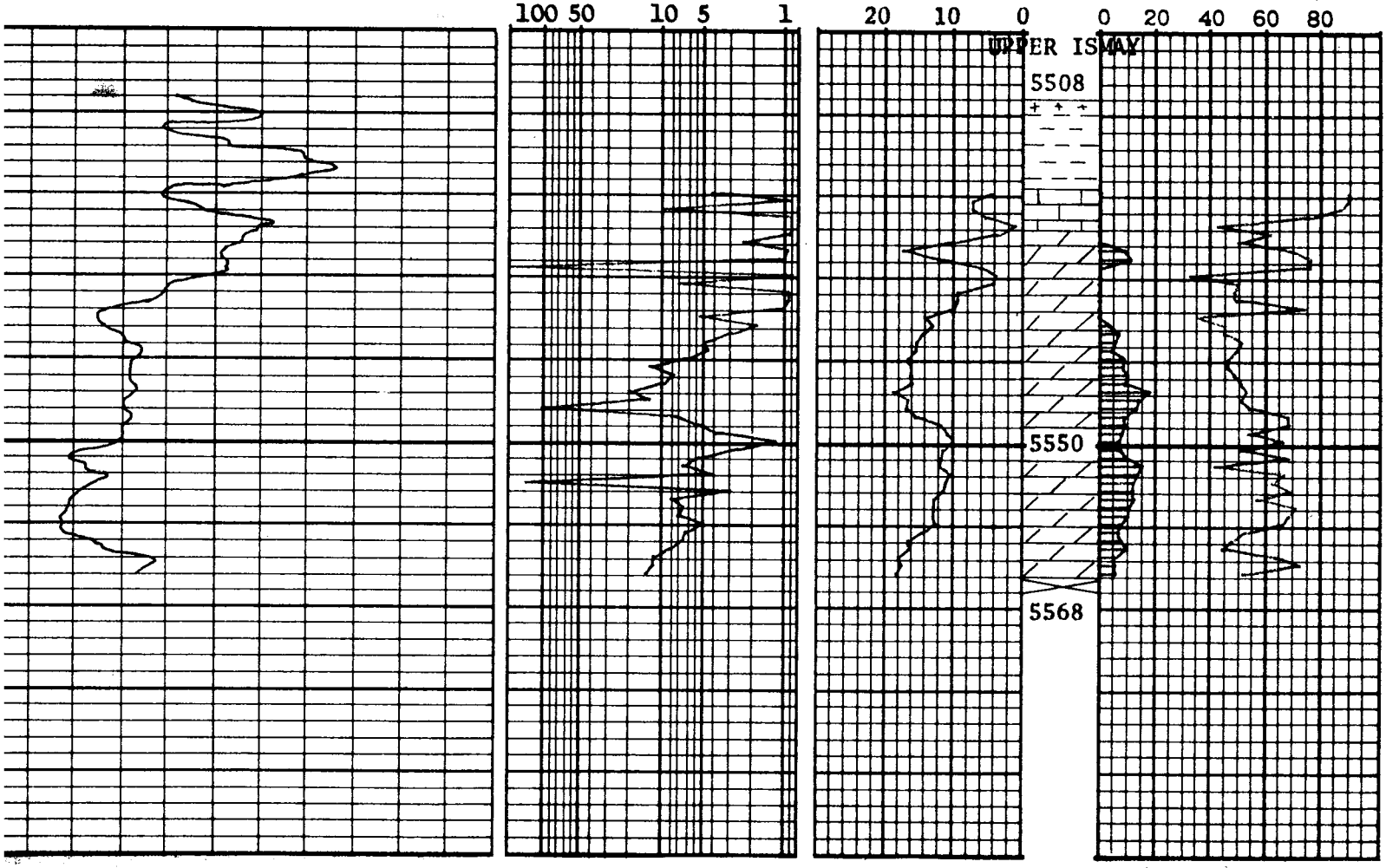
COREGRAPH

TOTAL WATER ———
PERCENT TOTAL WATER
80 60 40 20 0

PERMEABILITY ———
MILLIDARCYS
100 50 10 5 1

POROSITY ———
PERCENT
20 10 0

OIL SATURATION - - - - - -
PERCENT PORE SPACE
0 20 40 60 80



CL-529

CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: Upper Ismay - 5519.0-5543.0 Feet

FEET OF CORE RECOVERED FROM ABOVE INTERVAL		24	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	38.6
FEET OF CORE INCLUDED IN AVERAGES		16	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	
AVERAGE PERMEABILITY: MILLIDARCYS	Max.	17.3	OIL GRAVITY: °API	
	90°	14.0		
PRODUCTVE CAPACITY: MILLIDARCY-FEET	Max.	277.3	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
	90°	56.0		
AVERAGE POROSITY: PER CENT		12.3	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE		4.7	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. *(Please refer to footnotes for further discussion of recovery estimates.)*

FORMATION NAME AND DEPTH INTERVAL: Upper Ismay - 5543.0-5559.0 Feet

FEET OF CORE RECOVERED FROM ABOVE INTERVAL		16	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	39.1
FEET OF CORE INCLUDED IN AVERAGES		16	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	30 (e)
AVERAGE PERMEABILITY: MILLIDARCYS		21.1	OIL GRAVITY: °API	42 (e)
		15.7		
PRODUCTVE CAPACITY: MILLIDARCY-FEET		338.1	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
		235.0		
AVERAGE POROSITY: PER CENT		9.9	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.45 (e)
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE		11.3	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	471

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. *(Please refer to footnotes for further discussion of recovery estimates.)*

(c) Calculated (e) Estimated (m) Measured (*) Refer to attached letter.

INTERPRETATION OF DATA

5519.0-5543.0 Feet - Interval is believed to be capable of gas production. Due to somewhat low permeability and/or porosity, flow rates may be restricted.

5543.0-5559.0 Feet - Oil production is expected from this interval. A formation treatment will be needed.

5559.0-5566.0 Feet - Essentially water productive.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

WEXPRO COMPANY

PATTERSON UNIT WELL NO. 1

NE/NW SECTION 5-T38S-R25E

SAN JUAN COUNTY, UTAH

GEOLOGIC REPORT

BY

L. A. PRENDERGAST

ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

TABLE OF CONTENTS

WELL SUMMARY

OPERATOR:	WEXPRO COMPANY
WELL NAME:	PATTERSON UNIT NO. 1
LOCATION:	NE/NW SECTION 5, T38, R25E
AREA:	PATTERSON CANYON
COUNTY:	SAN JUAN
STATE:	UTAH
ELEVATION:	KB 5318' - GR 5305
DRILLING ENGINEER:	PAT LEECH, LYLE WOELICK, JIM GAZEWOOD
WELL SITE GEOLOGY:	L. A. PRENDERGAST
SPUD DATE:	FEBRUARY 1, 1980
T. D. DATE:	MARCH 20, 1980
CONTRACTOR:	ALL WESTERN DRILLING CONTRACTORS
TOOL PUSHER:	JERRY BARNES
HOLE SIZE:	7 7/8" 336' TO 5888'
CASING:	9 5/8" @ 336'; 5½" TO 5888'
DRILL COLLARS:	6"
DRILL PIPE:	4½" X HOLE
MUD TYPE:	GEL-CHEM
MUD ENGINEERS:	BAROID ENGINEER: TONY NEUWORTH
MUD LOGGING:	ROCKY MOUNTAIN GEO-ENGINEERING COMPANY ENGINEERS: TROY CARTER, PAT MARTIN
ELECTRIC LOGGING:	DRESSER ATLAS
CEMENTING:	DOWELL
OBJECTIVES:	PENNSYLVANIAN ISMAY, DESERT CREEK
TOTAL DEPTH:	5888'
STATUS:	AWAITING COMPLETION

WEXPRO COMPANY
PATTERSON UNIT #1

WELL CHRONOLOGY

DATE & # DAYS	MDNT DEPTH	FT/ DAY	DAILY OPERATIONS
2/10/80 (10)		30	Unit on location-Begin geological coverage in the Lower Cutler form @ 4300', 10:00 PM, 2/10-Drlg w/ RR Bit #2, STC F-2, WOB 30M, RPM 70, PP 1000, SPM 60
11 (11)	4300	235	Drlg-TOH for NB#3, STC F-3, WOB 30M, RPM 70, PP 1000, SPM 60-Top Hermosa Gp Honaker Trail Fm @ 4456'
12 (11)	4565	182	Drlg-TOH for hole in pipe @ 4636-TIH-Drlg-TOH for hole in pipe @ 4674-Drlg-WOB 30M, RPM 70, PP 1000, SPM 60
13 (13)	4747	161	Drlg w/Bit #3-TOH for hole in pipe @ 4878-Drlg w/ Bit #3-WOB 30M, RPM 70, PP 1000, SPM 60
14 (14)	4908	202	Drlg-TOH for hole in pipe @ 4913-TIH-Drlg-Top the Paradox @ 4974-WOB 30M, RPM 70, PP 100, SPM 60
15 (15)	5110	157	Drl w/Bit #3-WOB30M, RPM 70, PP 1000, SPM 60
16 (16)	5267		Drl-WOB 30M, RPM 70, PP 1000, SPM 60-TOH for NB#4
17 (17)	5412		Drlg w/Bit #4, STCF-3; WOB 30M, RPM 70, PP 1000, SPM 60-Reach Core pt-Trip for Core bbl
18 (18)	5508	60	Begin CORE #1-Lay dn, meas, box core-Haul core to Dove Creek, Co.-Wait on testers
19 (19)	5568	-0-	Experience sever weather problems-Access to rig extremely difficult
20 (20)	5568	-0-	Wait on cons co. to work on road
21 (21)	5568	-0-	Standby thru 3/2/80
3/3/80 (32)	5568	-0-	Called to rig but road impassable-Return to GJ
4 (33)	5568	-0-	Standby
5 (34)	5568	-0-	Called to return to rig-TIH to cond mud for DST # 1-Circ & cond mud
6 (35)	5568	-0-	TOH for DST #1-Stuck @ 2617-Wait on N_2 truck-Spot Nitrogen-Fail to get lse-Wait on Backoff Truck & Fisherman

WEXPRO COMPANY
PATTERSON UNIT WELL #1
WELL CHRONOLOGY CONT'D

3/7/80 (36)	5568	-0-	Sever Weather w/sever road cond-Wait on fisherman Back off fish & leave 2 DCs, shock sub & bit
8 (37)	5568	-0-	Screw into fish-Retrieve-TIH w/RR#4-Circ & cond mud
9 (38)	5568	-0-	TOH for DST#1-Run in w/tools-Find fill-Set packer @ 5479 & slid pkrs to 5501-Op tool 55 m-Can't shut in hole-Stuck-Reverse fluid (oil & gas cut mud)-Attempt seat @ 5510-Can't reach
10 (39)	5568	-0-	Jar on Stuck DST#1 tools-WOO & wait on fish tools
11 thru 3/16/80 (40) thru (45)			Unit on standby
17 (46)	5568	10	Recover fish-Drl 10' w/washpipe 5568-78-Logging unit resumes service-TIH w/NB#5-Wash to bottom
18 (47)	5578	116	Wash to bot-Drlg-TOH for NB#6
19 (48)	5694		Drlg w/Bit #6
20 (49)	5813	75	Drlg w/Bit #6 to TD
21 (50)	5888	-0-	Run logs-Logging unit on standby until roads permit moving unit

BIT RECORD

WELL NAME: PATTERSON UNIT #1

ELEVATION:

COMPANY NAME: WEXPRO

SECTION: NENW, 5-T38S-R25E

DRILLING CONTRACTOR:

RIG #

LOCATION: SAN JUAN CO., UTAH

SPUD DATE:

T.D. DATE

BIT #	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS	FT/HR
1	7 7/8	REED	FP52	941	605	14	
2	"	STC	F-2	1659	718	11 ¼	
RR#1	"	REED	FP52	3205	1546	47 ¼	
RR#2	"	STC	F-2	4458	1253	67 3/4	
3	"	"	F-3	4458	953	103 ½	
4	"	STC	F-3	5411(IN)			
5	"	CHRIS	DIA	5508(IN) 5568	60	7	
6	"	STC	DGT	5602	24		
7	"	HTC	J-33	5888	286		

PATTERSON NO.1

MUD RECORD

WEXPRO CO.

1980 DATE	DEPTH	WEIGHT	MUD GRADIENT	FUNNEL VIS	PLASTIC VIS	YIELD POINT	GEL STRENGTH	PH	FILTRATE API	CAKE	ALKALINITY FILTRATE	CHLORIDE PPM	CALCIUM PPM	SAND % CONTENT	SOLIDS % CONTENT	OIL % CONTENT	WATER % CONTENT	% KCL
2/4	941	8.6	.447	52	20	15	10/22	10.7	6.8	1	1.18/ 2/20	3400	12,800	.10	2.0			
2/5	"	"	"	35	10	10	4/6	"	6.6	1	.68/1.60	2000	13,200	TR	2.0			
2/7	2836	8.9	---	31	7	2	0/3	9.5	16	2	.28/.78	700	65	1	4.0		96	
2/8	3210	9.2	---	27	3	3	0/1	6.5	N/C	8	0/.28	7800	1320	1	5.0		95	
2/9	3825	9.6	---	32	8	4	3/8	7.8	36	4	0/.2	30,000	2400	2	6.0		94	
2/10	4156	9.6	.499	33	7	8	4/8	8.5	24	3	.05/.	19,000	1200	TR	10		90	
2/11	4457	10.2	.530	40	18	5	1/6	"	14	2	.08/.2	18,000	240	"	12		80	
2/12	4676	9.8	---	36	8	2	3/14	10.0	18.4	"	.4/.9	19,800	68	¼	9		91	
2/13	4822	10.2	.530	41	13	4	3/12	11.0	8.4	"	.6/.1	17,600	100	¼	14		86	
2/14	5069	10.1	.525	36	11	11	5/15	8.0	22	3	.0/.2	24,000	1200	TR	13		87	
2/15	5174	10.2+	.530	46	21	12	4/18	11.0	7.8	2	.15/.3	22,000	200	.10	14		86	
2/16	5345	"	"	41	14	10	3/12	12.0	9.4	"	1.6/5.4	15,000	80	TR	"		"	
2/18	5508	10.3		42	16	12	4/12	"	9.8	"	1.3/1.6	12,800	"	"	15		85	
SHUTDOWN FOR WEATHER & ROAD CONDITIONS																		
3/5	5568	10.2	---	50	15	18	8/18	11.0	12.8	2	.15/.45	18,000	240	TR	14		86	
3/6	"	"	.530	41	14	10	2/8	"	9.6	"	.3/.16	13,000	100	"	16		84	
3/8	"	10.5	.546	48	20	18	5/16	9.5	10.0	2	.15/.7	"	240	.15	18		82	
3/9	"	10.2	.530	43	15	11	3/9	10.0	9.0	"	.04/.3	"	160	TR	14		86	
3/10	"	"	"	48	18	14	"	10.0	9.6	2	.05/.3	"	120	"	14		86	
3/11	"	"	"	44	15	10	2/9	10.5	8.4	2	.3/.8	"	60	"	"		"	
3/12	"	"	"	41	16	12	3/10	11.5	7.2	"	.3/.65	15,000	2	"	"		"	

PATTERSON NO.1

MUD RECORD

WEXPRO CO.

DATE	DEPTH	WEIGHT	MUD GRADIENT	FUNNEL VIS	PLASTIC VIS	YIELD POINT	GEL STRENGTH	PH	FILTRATE API	CAKE	ALKALINITY FILTRATE	CHLORIDE PPM	CALCIUM PPM	SAND % CONTENT	SOLIDS % CONTENT	OIL % CONTENT	WATER % CONTENT	% KCL
3/14	5568	10.3	---	43	14	10	1/7	12.0	6.8	1	.6/1.4	15,000	40	TR	16		84	
3/15	"	10.1	.525	"	15	12	1/9	"	6.4	2	.7/1.4	9,000	10	TR	14		86	
3/16	"	10.2	.530	"	14	10	2/9	11.5	8.8	2	.1/.95	14,000	80	TR	"		"	
3/18	5580	10.3	.535	45	18	"	2/11	12.0	6.4	1	.5/1.8	"	"	"	15		85	
3/19	5727	10.5	.646	48	20	15	3/11	10.5	8.0	2	.2/1.0	13,000	160	"	16		84	
"	5847	10.3	.535	47	18	14	3/12	12.0	9.2	"	.3/1.6	11,000	240	"	15		85	
3/20	5888	10.6	.551	50	20	15	3/13	12.5	8.8	"	.6/1.8	10,000	120	"	18		82	

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

COMPANY WEXPRO COMPANY

WELL NO. PATTERSON UNIT WELL NO. 1

LOCATION NE/NW SECTION 5-T38S-R25E - SAN JUAN COUNTY, UTAH

ZONE OF INTEREST NO. 1

INTERVAL: From 5516' To 5523'

DRILL RATE: Abv 10-12 Thru 8 Below 7

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C_1	C_2	C_3	C_4	C_5	OTHER
10-12 m/ft Before	10	600	264	68	62	---	
8 m/ft During	100	7000	2640	680	930	---	
10 m/ft After	10	600	264	68	62	---	

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = 43 Sensitivity: Poor ☒ Fair ☐ Good ☐

FLUO: Mineral ☒ Even ☐ Spotty ☒
None ☐ % in total sample 20
Poor ☐
Fair ☐ % in show lithology 20
Good ☒ COLOR: YEL

CUT: None ☐ Streaming
Poor ☐ Slow ☒
Fair ☐ Mod ☒
Good ☒ Fast ☐
COLOR: GOLD

STAIN: None ☐ Poor ☐ Fair ☒ Good ☐ Live ☒ Dead ☐ Residue ☐ Even ☐ Spotty ☒ Lt. ☒ Dk. ☒

POROSITY: Poor ☐ Fair ☒ Good ☐ Kind Interxln vug w/TR Frac

LITHOLOGY LS gybrn-tan mxln w/pinpoint enterxln porosity w/abn bright yellow fluo

SAMPLE QUALITY GOOD

NOTIFIED N. THOMAIDIS @ 8:30 AM HRS. DATE: 2-18-80

REMARKS

ZONE DESCRIBED BY L.A. PRENDERGAST

COLORADO PRINTING CO. GRAND JUNCTION, COLO.

ROCKY MOUNTAIN GEO-ENGINEERING CO.
WELL LOGGING — CORE AND WATER ANALYSIS
2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

COMPANY WEXPRO

WELL NO. PATTERSON UNIT WELL NO. 1

LOCATION NE/NW SEC 5-T38S-R25E -- SAN JUAN CO., UTAH

ZONE OF INTEREST NO. 2

INTERVAL: From 5532 To 5543

DRILL RATE: Abv 7-10 m/ft Thru 2½-3 m/ft Below 7-11

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C_1	C_2	C_3	C_4	C_5	OTHER
7-10 m/ft Before	10	600	264	68	62	---	
2½-3 m/ft During	70	5000	1650	510	620	---	
7-10 After							

Type gas increase: Gradual ☒ Sharp ☐

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = 43 Sensitivity: Poor ☒ Fair ☐ Good ☐

FLUO: Mineral ☒ Even ☐ Spotty ☒
None ☐ % in total sample 20
Poor ☐
Fair ☐ % in show lithology 20
Good ☒ COLOR: YEL

CUT: None ☐ Streaming
Poor ☐ Slow ☒
Fair ☒ Mod ☒
Good ☒ Fast ☐ GOLD
COLOR:

STAIN: None ☐ Poor ☐ Fair ☐ Good ☒ Live ☒ Dead ☐ Residue ☐ Even ☐ Spotty ☒ Lt. ☒ Dk. ☒

POROSITY: Poor ☐ Fair ☐ Good ☒ Kind Interxln vug Frac

LITHOLOGY LS-DOLO ltbrn-tan w/fair pinpoint vug poro w/Tr fraqc por w/ free oil on frac SAMPLE QUALITY GOOD

NOTIFIED N. THOMAIDIS @ 8:30 AM HRS. DATE: 2-18-80

REMARKS

ZONE DESCRIBED BY L. A. PRENDERGAST

COLORADO PRINTING CO., GRAND JUNCTION, COLO.

WEXPRO COMPANY
PATTERSON UNIT #1
SAN JUAN CO., UTAH

CORE DESCRIPTION

CORE #1 5508-68' Recv 57,5'

5509.6	Ls dkgy shly foss slty micxln dns; Tr Fluo yel min
5510.95	AA
5514.25	AA w/Tr yel Fluo (oil) & cut
5516.95	LS dkgy vfxln shly slty dns
5518.65	LS gy-brn tan mxln w/pp interxln fair pp por abn brt yel Fluo
5521.85	AA w/open & calc fill fract; TR brn oil stain on frac faces
5523.70	Ls gy-brn vslty shly vfxln - No Shows
5528.95	Ls crm fxln w/Tr pp por & Tr brn stn on frac face & Tr yel Fluo
5531.40	LS cry-buf amorph vfxln w/fair vuggy por fair yel Fluo & Tr foss
5536.70	LS crm vfxln & tr foss fair vuggy por; Tr fair-good yel Fluo
5539.35	Ls ltcrm vfxln w/fair vug por vthin hair-line frac & good yell Fluo; Tr stn
5540.25	AA
5542.50	Ls ltbrn tan vfxln w/fair pp & vug por; Tr frac por w/free oil on frac face-gd yel Fluo
5544.90	AA
5547.70	Ls vltgy-brn vfxln dns w/gy intraclasts; V dolo-Tr por yel Fluo on frac face
5546.60	Ls v dol AA w/fair yel Fluo
5550.60	AA w/good yel Fluo
5553.45	AA w/fair yel Fluo
5555.45	AA w/Pyr xln (Rhombohedral) brn o stn
5556.95	AA w/Pyr AA & gd yel Fluo & oil stn aa
5560.85	Dol AA w/Show AA
5561.40	AA
5563.70	AA w/brn dns crude on frac faces-Show AA
5566.50	Dol ltgy fxln w/vug por brit yel Fluo

WEXPRO COMPANY
PATTERSON UNIT #1
NENW SEC 5-38S-25E
SAN JUAN CO., UTAH

FORMATION TOPS

ENTRADA	650
CARMEL	825
NAVAJO	848
KEYENTA	1235±
WINGATE	1360±
CHINLE	1620±
SHINARUMP	2430±
CUTLER	2555±
HERMOSA	4465
PARADOX	4960
ISMAY	5342
BASE 2ND SHALE	5490
LOWER ISMAY	5665
"B" ZONE	5729
DESERT CREEK	5751
AKAH	5844
SALT	5886

WEXPRO COMPANY
PATTERSON UNIT #1

SAMPLE DESCRIPTION

4300-4310	SH 50% redbrn redorg slty sdy pred calc s/gygn wxy aren; SS 40% ltbrn tan redbrn vf-mg vpsrt sbang-sbrd pcmt-fria; calc w/abn lse grs clr frstd f-mg
4310-4320	SS 30% AA; SH 60% AA w/s brn mica; LS 10% AA
4320-4340	AA w/TR dkgy LS vfxln
4340-4350	SH 80% AA; SS 20% AA; TR LS AA
4350-4360	SH 70% redbrn redorg slty sdy ip s/mica s/gygn wxy aren mica ip; SS 30% wh clr frst ltred-org vf-mg vpsrt sbang-sbrd fria calc TR LS crm, lttan dns
4360-4370	SH 80% AA; SS 20% AA w/abn lse Qtz grs f-mg sbrd w/TR LS AA
4370-4380	AA w/s SH brn v mica & s/SS v mica & TR LS AA
4380-4400	AA w/incr gygn wxy aren SH
4400-4410	SH 90% varcol AA s/bent; SS 10% AA w/TR LS AA
4410-4440	SH 80% AA; SS 20% AA
4440-4450	SH 90% redbrn redorg slty s/v mica calc frm-sft s/bent; SS 10% wh clr frst tr gn vf-mg psrt sbrd fria calc
4450-4460	SH 30% AA; SS 5% AA w/lse Qtz grs mg rdd; LS 65% lt-m-gybrn pred mic w/TR ltgy-mgy ool sparite s/lt crm-buf mic; TR Foss Frag s/aren
4460-4470	AA w.LS bcmg m-dkgy
4470-4480	LS 90% ltcrm-buf m-xln sparry; SH 10% AA (CVGS?)
4480-4490	SH 80% AA varcol (CVGS?); LS 10% crm-buf AA; SS 10% clr frst f-mg lse
4490-4510	AA abn CVGS - VPS
4510-4540	SH 60% AA; LS 20% crm-lttan vfxln; SS 20% clr frst f-mg sbrd fria-lse
4540-4550	SH 60% AA redbrn slty & gygn wxy aren SS 20% AA; LS 20% AA w/s vdkgy vfxln
4550-4560	SH 40% AA pred CVGS; SS 30% AA; LS 30% crm lttan vfxln
4560-4570	SH 30% AA; LS 70% crm lttan gy ltred vfxln slty ip w/TR OOL
4570-4580	LS 80% pred crm lttan w/Slt gy vfxln; SH 20% AA pred CVGS
4580-4590	AA w/incr ltgy-gy LS
4590-4600	LS 70% AA; SH 30% AA
4600-4620	LS 60% crm wh ltgy vfxln dse; SH 40% redbrn gygn pred slty bent sft-frm calc (CVGS?)
4620-4630	LS 70% AA; SH 30% AA

SAMPLE DESCRIPTION CONT'D
PATTERSON UNIT #1 - WEXPRO

4630-4650 LS 80% AA w/TR OOL dkgy;
SH 20% CVGS
4650-4660 LS 70% pred ltgy ltgybrn vfxln w/s crm vfxln;
SH 30% varcol (CVGS?)
4660-4670 SS 70% clr frst vfg sbang lse;
LS 20% AA;
SH 10% AA (CVGS)
4670-4680 SS 60% AA;
LS 30% AA;
SH 10% AA
4680-4690 SH 70% pred ltgygn wxy aren bent frm-sft s/lmy;
LS 30% gy-dkgy vfxln s/gybrn slty (abn rdbrn SH CVGS AA)
4690-4700 LS 40% AA;
SH 60% AA
4700-4710 LS 50% AA;
SH 50% AA
4710-4720 LS 80% pred crm lttan crpxln w/s ltgy-gy mxln & TR Foss
SH 20% AA
4720-4750 LS 90% AA;
SH 10% AA;
4750-4760 LS 70% crm-wh-ltgy-s/buf vfxln;
SH 30% pred gygn wxy aren ip frm-sft bent calc-lmy;
TR SS clr frst f-mg sbrd-rdd fria calc
4760-4770 LS 75% AA;
SH 15% AA;
SS 10% AA
4770-4790 LS 60% AA;
SH 30% AA;
SS 10% AA
4690-4800 LS 80% AA w/incr gy; TR FOSS, OOL & PELLETS
SH 20% AA & TR SS AA
4800-4810 SH 70% redbrn slty s/mica frm calc w/s gygn wxy AA;
LS 30% AA
4810-4820 SH 50% AA;
LS 50% AA w/TR SS clr frst fg sbrd lse
4820-4830 LS 80% pred gy-dkgy vfxln w/s crm & wh AA; TR FOSS & OOL;
SH 20 % AA; TR SS AA
4830-4840 LS 90% AA;
SH 10% AA; TR SS AA
4840-4860 LS 80% AA;
SH 20% AA; TR SS AA
4850-4890 LS AA;
SH 10% AA
4890-4900 LS 95% gy-dkgy-crm-tan vfxln;
SH 5% AA
4900-4920 LS 90% AA;
SH 10% gybrn slty calc sft
4920-4930 LS 95% AA;
SH 5% AA
4930-4950 LS 95% gy-dkgy vfxln;
SH 5% gygn wxy s/slty calc
4950-4970 LS 90% AA;
SH 10% AA s/CVGS
4970-5000 LS 95% AA incr gy-dkgy; (TOP PARADOX 4974')
SH 5% AA
5000-5020 LS 100% pred gy-dkgy vf-fxln dns; TR SH AA & CVGS

WEXPRO COMPANY
PATTERSON UNIT #1

5020-5050	LS 100% AA w/TR OOL
5050-5070	LS 100% gy-ltgy-dkgy vf-fxln; TR OOL
5070-5100	LS 100% AA
5100-5110	LS 100% gy-dkgy-crm vfxln dns slty ip & shly ip s/dolo
5110-5120	AA w/TR v thin intbdd dkgy mica SH
5120-5130	LS 100% dkgy-crm vfxln-amorph dns
5130-5150	LS 100% AA w/v thin intbd dkgy mica SH
5150-5170	LS 100% gy-crm vfxln-amorph s/dol & s/shly
5170-5180	LS 100% pred dkgy vfxln dns slty ip dol ip
5180-5200	AA w/incr shly & dolo LS
5200-5220	LS 100% pred gy-ltgy-crm vfxln-amor slty ip; TR SH blk carb v slty vsli calc
5220-5250	LS 100% pred dkgy slty-shly; TR SH AA blk
5250-5270	LS 100% pred dkgy slty-shly AA
5270-5300	AA w/s crm-wh vfxln amor LS
5300-5310	LS 100% gy-ltgy-crm f-mxln dns s/dkgy slty; TR CVGS
5310-5320	AA; TR SH gybrn slty mica calc
5320-5330	LS 90% AA; SH 10% AA w/s brick red SH frm blky bent
5330-5340	AA w/ TR LS gybrn TOP UPPER ISMAY 5334'
5340-5350	LS 80% w/s red-redbrn slty; SH 20% pred brkred w/s redbrn slty mica
5350-5360	LS 60% gy-gybrn-tan vf-mxln slty ip; SH 40% pred redbrn slty mica w/s brkred
5360-5380	AA; TR OOL
5380-5400	LS 90% AA; SH 10% AA
5400-5420	LS 90% gy-gybrn-crm vfxln slty-shly ip; SH 10% redbrn-gybrn slty mica
5420-5430	LS 100% AA; TR SH AA
5430-5440	AA w/TR SH vdkgy-blk frm blky lmy
5440-5470	AA w/abn redbrn SH (CVGS?)
5470-5480	LS 90% AA; SH 10% redbrn slty mic ip frm lmy
5480-5490	LS 80% pred gy-dkgy vfxln w/s crm vfxln slty ip SH 20% vdkgy-blk frm v limey
5490-5500	LS 70% AA; SH 30% AA; TR ANHY (1-2 pcs) wh sft
5500-5508	LS 30% AA; SH 20% AA; ANHY 50% wh sft
5508-5568	CORE #1 (SEE CORE DESC. REPORT)
5568-5578	No Record-Drlg w/wash pipe
5578-5600	95% LS ltgy crm s/gy-dkgy f-mxln s/slty frm; 5% SH dkgy slty lmy
5600-5610	90% LS AA: 10% SH AA
5610-5640	100% LS ltgy-dkgy w/s crm frm f-mxln s/marly slty ip & shly ip
5640-5650	AA pred crm, marly
5650-5660	AA w/TR ANY wh sft
5660-5670	60% LS AA: 40% SH v dkgy-blk sft-frm vslty vcalc-lmy s/grdg to LS
5670-5680	VPS (abn CVGS) 80% SH AA & 20% LS lt crm
5680-5690	AA w/90% SH ; LS 10% AA ltcrm & marly
5690-5700	SH 60% AA; LS 40% dkgy frm vfxln

WEXPRO COMPANY
PATTERSON UNIT #1
SAMPLE DESCRIPTION CONT'D

5700-5710 LS 80% gy-dkgy slty frm;
ANHY 20% wh sft
5710-5730 LS 60% AA;
ANHY 40% AA
5730-5740 LS 80% pred gy-ltgy frm slty ip f-mxln;
SH 10% v dkgy-blk slty lmy;
LS 10% blk v slty sft marly
5740-5750 LS 90% blk vslty sft-s/m-frm marly s/grdg to SH;
LS 30% gy-ltgy frm AA s/DOL
5750-5760 LS 70% blk slty AA s/vshly grdg to SH;
LS 30% gy-ltgy frm slty ip f-mxln
5760-5770 LS 70% gy-ltgy-gybrn sft-frm slty ip mxln s/dolo;
LS 30% blk slty shly marly (sft & smooth) AA
5770-5780 AA VPS
5780-5790 LS 90% gy-ltgy-gybrn pred frm fxln slty w/
LS 10% blk AA
5790-5800 100% LS gy-ltgy-gybrn w/s/dkgy frm f-mxln slty dolo ip
5800-5810 LS 40% blk AA s/shly;
DOL 60% ltgy mxln vslty w/ANHY incl s/lmy
5810-5820 DOL 80% ltgy AA s/lmy;
LS 20% blk AA s/shly
5820-5830 DOL 90% AA;
LS 10% AA
5830-5840 LS 70% blk vslty sft marly;
DOL 30% AA
5840-5850 LS 100% blk slty sft marly AA
5850-5860 LS 60% AA blk slty sft marly;
SH 40% blk slty sooty sft
5860-5870 LS 60% dkgy slty frm-sft marly ip;
SH 40% AA
5870-5880 AA w/TR ANHY wh sft
5880-5888 AA w/TR ANHY AA

GEOLOGIC SUMMARY
AND
ZONES OF INTEREST

Rocky Mountain Geo-Engineering Company began geological coverage of Wexpro's Patterson Unit Well No. 1 on 10 February, 1980, at a depth of 4300' in the Cutler Formation. This project was characterized by extremely inclimate weather and impassable roads, which led to a temporary abandonment of the project.

CUTLER (2555-4465')

The Cutler was predominantly red-brown and red-orange, silty , sand shale with light brown, tan, and red-brown arkosic sandstones interbedded. No hydrocarbons were noted.

HERMOSA (4465-4960')

The Hermosa formation consisted predominantly of red-brown shales and light gray to cream limestones. No hydrocarbon were noted.

PARADOX (4960-5342')

This zone consisted of interbedded dark gray to black shales and gray to gray-brown limestones with minor anhydrites. The Upper Ismay porosity was cored from 5508-5568' with a recovery of 58-50'. Two gas increases were noted formally, although hydrocarbons were noted from 5516 to 5568. After the temporary abandonment of the project from 2-18-80 to 3-9-80, DST #1, 5510-5568, was attempted. This was a misrun, resulting in a stack test tool. Further attempts to evaluate this zone were abandoned and the hole drilled to total depth, 5886'. 5568-5578' was drilled with washover pipe during the fishing process.

When gas detection coverage was resumed at 5578', there were no significant hydrocarbon shows noted, although the electric logs demonstrated porosity to a significant depth below 5568'.

The Desert Creek formation was topped at 5761' and the Akah at 5844, and the Salt at 5888. Upon penetration of the Salt, the well was completed at a total depth of 5888'.

Special thanks and appreciation are in order for Lyle Woelich and Jim Gazewood of Wexpro, Jerry Barnes and Pat Leech of the drilling company and Dave Cressler of Urado Construction for their consistant optimism and cheerful acceptance of adverse working conditions of severe weather and impassable roads. Due to their combined efforts, this project was completed without waiting for summer's dry weather.

L. A. (Larry) Trendergast

WEXPRO COMPANY
PATTERSON UNIT WELL NO.1
WILDCAT
SAN JUAN UTAH
03/24/80

INTERVAL 3870 5880
RUN ONE RLAC 174
ENGINEER DAVIDSON MAG DEC 15

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**************************************************
* 8-4-2                                          *
*     4     0     0     0     0                  *
*   1.0   1.0   1.0   1.0   1.0   1.0   1.0      *
*   1.0   1.0   1.0   1.0   1.0   1.0            *
*   0.0   0.0   0.0   0.0   0.0   0.0   0.0      *
*   0.0   0.0   0.0   0.0   0.0   0.0            *
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		FORMATION DIP			****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
3880.0	8.	0.9	168	S 11 E	100	2.0	332	N 27 W
3882.0	8.	1.7	171	S 8 E	100	1.9	338	N 21 W
3884.0	8.	3.2	191	S 11 W	100	2.0	345	N 14 W
3886.0	8.	4.9	212	S 32 W	100	2.3	348	N 11 W
3888.0	8.	5.9	216	S 36 W	100	2.4	346	N 13 W
3890.0	8.	5.3	238	S 58 W	100	2.3	339	N 20 W
3892.0	8.	4.5	277	N 82 W	100	2.0	341	N 18 W
3894.0	8.	5.7	314	N 45 W	100	2.0	346	N 13 W
3896.0	8.	7.4	323	N 36 W	100	2.0	349	N 10 W
3898.0	8.	6.6	317	N 42 W	100	1.9	352	N 7 W
3900.0	8.	4.4	295	N 64 W	100	1.9	353	N 6 W
3902.0	8.	2.7	264	S 84 W	99	2.1	358	N 1 W
3904.0	8.	0.7	204	S 24 W	97	2.0	357	N 2 W
3906.0	8.	3.3	170	S 9 E	97	1.9	354	N 5 W
3910.0	8.	10.5	179	S 0 E	97	2.2	351	N 8 W
3912.0	8.	10.9	178	S 1 E	100	2.4	351	N 8 W
3914.0	8.	8.5	170	S 9 E	100	2.4	350	N 9 W
3916.0	8.	6.3	156	S 23 E	100	2.6	351	N 8 W
3922.0	8.	2.0	196	S 16 W	90	2.4	358	N 1 W
3924.0	8.	2.0	183	S 3 W	85	1.9	314	N 45 W
3932.0	8.	8.5	137	S 42 E	98	2.1	339	N 20 W
3934.0	8.	9.9	127	S 52 E	100	2.3	339	N 20 W
3936.0	8.	6.9	124	S 55 E	100	2.4	342	N 17 W
3938.0	8.	3.9	131	S 48 E	100	2.4	343	N 16 W
3940.0	8.	1.5	172	S 7 E	100	2.7	342	N 17 W
3942.0	8.	1.2	211	S 31 W	100	3.1	339	N 20 W
3944.0	8.	2.2	200	S 20 W	94	3.7	343	N 16 W
3946.0	8.	1.7	217	S 37 W	87	3.5	304	N 55 W
3948.0	8.	5.7	216	S 36 W	84	2.6	339	N 20 W

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
3952.0	8.	6.5	191	S 11 W	90	2.4	335	N 24 W	
3954.0	8.	0.2	52	N 52 E	90	2.2	179	S 0 E	
3956.0	8.	4.2	143	S 36 E	95	2.2	333	N 26 W	
3958.0	8.	2.9	117	S 62 E	96	2.2	333	N 26 W	
3960.0	8.	1.6	101	S 78 E	99	2.3	333	N 26 W	
3962.0	8.	2.0	163	S 16 E	100	2.4	332	N 27 W	
3964.0	8.	2.3	172	S 7 E	100	2.4	332	N 27 W	
3966.0	8.	3.0	176	S 3 E	100	2.4	332	N 27 W	
3968.0	8.	3.6	180	S 0 W	100	2.4	332	N 27 W	
3970.0	8.	3.0	187	S 7 W	100	2.3	332	N 27 W	
3972.0	8.	2.1	203	S 23 W	100	2.3	332	N 27 W	
3974.0	8.	1.9	244	S 64 W	100	2.3	332	N 27 W	
3976.0	8.	3.2	256	S 76 W	100	2.2	332	N 27 W	
3978.0	8.	4.3	247	S 67 W	100	2.2	332	N 27 W	
3980.0	8.	5.1	246	S 66 W	100	2.1	333	N 26 W	
3982.0	8.	4.7	246	S 66 W	100	2.2	335	N 24 W	
3984.0	8.	3.5	251	S 71 W	100	2.1	335	N 24 W	
3986.0	8.	2.2	248	S 68 W	100	2.1	336	N 23 W	
3988.0	8.	1.1	212	S 32 W	100	2.1	333	N 26 W	
3990.0	8.	1.1	161	S 18 E	100	2.0	332	N 27 W	
3992.0	8.	1.3	140	S 39 E	100	2.0	332	N 27 W	
3994.0	8.	1.6	91	S 88 E	100	2.0	332	N 27 W	
3996.0	8.	2.7	61	N 61 E	100	2.0	332	N 27 W	
3998.0	8.	3.6	47	N 47 E	100	2.1	334	N 25 W	
4000.0	8.	3.6	36	N 36 E	100	2.0	333	N 26 W	
4002.0	8.	2.2	4	N 4 E	100	1.9	332	N 27 W	
4004.0	8.	1.3	305	N 54 W	92	2.1	341	N 18 W	
4006.0	8.	0.8	347	N 12 W	78	2.2	329	N 30 W	
4008.0	8.	7.1	32	N 32 E	78	2.3	330	N 29 W	
4010.0	8.	15.6	19	N 19 E	76	2.2	335	N 24 W	
4012.0	8.	12.8	2	N 2 E	87	2.1	333	N 26 W	
4014.0	8.	9.3	345	N 14 W	97	2.2	341	N 18 W	
4016.0	8.	6.0	325	N 34 W	97	2.4	337	N 22 W	
4018.0	8.	2.7	300	N 59 W	100	2.5	334	N 25 W	
4020.0	8.	2.0	325	N 34 W	100	2.6	340	N 19 W	
4022.0	8.	2.0	27	N 27 E	100	2.6	344	N 15 W	
4024.0	8.	2.0	67	N 67 E	100	2.4	344	N 15 W	
4030.0	8.	9.6	160	S 19 E	97	2.4	342	N 17 W	
4032.0	8.	13.9	162	S 17 E	97	2.3	342	N 17 W	
4034.0	8.	16.9	163	S 16 E	90	2.4	343	N 16 W	

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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
4036.0	8.	16.9	165	S 14 E	84	2.5	342	N 17 W
4038.0	8.	10.8	175	S 4 E	84	2.8	341	N 18 W
4040.0	8.	5.2	199	S 19 W	88	2.9	338	N 21 W
4042.0	8.	4.4	226	S 46 W	99	2.9	342	N 17 W
4044.0	8.	4.1	222	S 42 W	100	2.9	340	N 19 W
4046.0	8.	4.0	211	S 31 W	100	2.9	340	N 19 W
4048.0	8.	3.7	194	S 14 W	100	2.9	339	N 20 W
4050.0	8.	3.0	152	S 27 E	100	2.9	340	N 19 W
4052.0	8.	3.2	129	S 50 E	100	2.9	337	N 22 W
4054.0	8.	3.4	119	S 60 E	100	2.9	345	N 14 W
4056.0	8.	3.5	115	S 64 E	100	2.9	343	N 16 W
4058.0	8.	3.3	114	S 65 E	100	2.9	342	N 17 W
4060.0	8.	3.5	113	S 66 E	100	2.9	344	N 15 W
4062.0	8.	3.3	103	S 76 E	100	3.0	341	N 18 W
4064.0	8.	2.6	79	N 79 E	100	3.1	344	N 15 W
4066.0	8.	2.4	35	N 35 E	100	3.2	341	N 18 W
4068.0	8.	3.2	344	N 15 W	100	3.4	338	N 21 W
4070.0	8.	4.7	314	N 45 W	100	3.6	336	N 23 W
4072.0	8.	5.9	281	N 78 W	100	3.6	337	N 22 W
4074.0	8.	7.4	262	S 82 W	98	3.5	342	N 17 W
4076.0	8.	8.1	255	S 75 W	95	3.5	342	N 17 W
4078.0	8.	6.0	249	S 69 W	95	3.5	340	N 19 W
4080.0	8.	3.6	258	S 78 W	95	3.5	340	N 19 W
4082.0	8.	1.3	249	S 69 W	100	3.6	340	N 19 W
4084.0	8.	1.9	175	S 4 E	100	3.6	345	N 14 W
4086.0	8.	3.3	163	S 16 E	100	3.8	345	N 14 W
4088.0	8.	4.0	160	S 19 E	100	3.9	348	N 11 W
4090.0	8.	3.7	144	S 35 E	100	4.0	350	N 9 W
4092.0	8.	2.9	111	S 68 E	100	2.7	348	N 11 W
4094.0	8.	3.4	80	N 80 E	100	1.9	346	N 13 W
4096.0	8.	4.8	76	N 76 E	100	2.2	345	N 14 W
4098.0	8.	4.5	72	N 72 E	100	1.9	351	N 8 W
4100.0	8.	5.8	67	N 67 E	100	1.7	348	N 11 W
4102.0	8.	7.3	80	N 80 E	100	1.8	340	N 19 W
4104.0	8.	6.6	87	N 87 E	100	2.1	339	N 20 W
4106.0	8.	5.0	73	N 73 E	100	2.2	339	N 20 W
4108.0	8.	2.0	65	N 65 E	100	2.1	342	N 17 W
4110.0	8.	1.0	326	N 33 W	100	2.1	342	N 17 W
4112.0	8.	1.6	294	N 65 W	100	2.1	340	N 19 W
4114.0	8.	1.9	279	N 80 W	100	2.0	339	N 20 W

WEXPRO COMPANY
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DEPTH	WL	**FORMATION DIP** ANG	AZ	BEARING	GRADE	****BOREHOLE***** DA	DAZ	BEARING
4116.0	8.	1.6	266	S 86 W	100	2.1	337	N 22 W
4118.0	8.	1.2	250	S 70 W	100	2.0	334	N 25 W
4120.0	8.	3.7	229	S 49 W	100	2.0	332	N 27 W
4122.0	8.	8.7	221	S 41 W	100	2.1	338	N 21 W
4124.0	8.	11.7	214	S 34 W	96	2.1	338	N 21 W
4126.0	8.	11.5	208	S 28 W	96	2.3	331	N 28 W
4130.0	8.	3.9	219	S 39 W	96	2.7	347	N 12 W
4132.0	8.	2.2	213	S 33 W	95	3.1	342	N 17 W
4134.0	8.	2.4	331	N 28 W	95	2.9	338	N 21 W
4136.0	8.	4.6	324	N 35 W	95	2.9	329	N 30 W
4144.0	8.	3.6	195	S 15 W	96	3.5	340	N 19 W
4146.0	8.	4.1	191	S 11 W	100	3.5	338	N 21 W
4148.0	8.	4.5	192	S 12 W	100	3.6	343	N 16 W
4150.0	8.	4.7	210	S 30 W	100	3.6	340	N 19 W
4152.0	8.	5.7	226	S 46 W	100	3.7	339	N 20 W
4154.0	8.	6.0	226	S 46 W	97	3.5	331	N 28 W
4156.0	8.	4.8	214	S 34 W	97	2.9	344	N 15 W
4158.0	8.	4.6	159	S 20 E	97	2.5	341	N 18 W
4160.0	8.	5.8	124	S 55 E	98	2.4	342	N 17 W
4162.0	8.	6.1	81	N 81 E	100	2.5	241	S 61 W
4164.0	8.	4.0	114	S 65 E	100	2.4	339	N 20 W
4166.0	8.	3.6	322	N 37 W	100	2.4	102	S 77 E
4168.0	8.	3.0	356	N 3 W	99	2.5	333	N 26 W
4170.0	8.	5.9	339	N 20 W	99	2.4	328	N 31 W
4172.0	8.	7.1	299	N 60 W	96	2.6	331	N 28 W
4174.0	8.	8.5	253	S 73 W	96	2.3	347	N 12 W
4182.0	8.	4.4	270	N 89 W	100	2.2	347	N 12 W
4184.0	8.	2.6	240	S 60 W	100	2.1	347	N 12 W
4186.0	8.	2.5	177	S 2 E	100	2.0	346	N 13 W
4188.0	8.	4.4	177	S 2 E	100	2.1	353	N 6 W
4190.0	8.	5.0	180	S 0 W	100	2.1	354	N 5 W
4192.0	8.	4.1	183	S 3 W	100	2.3	354	N 5 W
4194.0	8.	3.1	197	S 17 W	100	2.5	353	N 6 W
4196.0	8.	2.5	215	S 35 W	100	2.4	353	N 6 W
4198.0	8.	1.9	216	S 36 W	100	2.4	352	N 7 W
4200.0	8.	2.3	179	S 0 E	97	2.3	353	N 6 W
4206.0	8.	4.1	137	S 42 E	75	3.0	354	N 5 W
4208.0	8.	4.3	136	S 43 E	72	3.2	353	N 6 W
4210.0	8.	4.3	149	S 30 E	78	3.3	355	N 4 W
4216.0	8.	2.9	210	S 30 W	100	4.3	359	N 0 W

WEXPRO COMPANY
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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4218.0	8.	3.3	146	S 33 E	100	4.8	331	N 28	W
4220.0	8.	3.8	197	S 17 W	100	5.0	18	N 18	E
4222.0	8.	4.1	224	S 44 W	98	4.1	26	N 26	E
4224.0	8.	3.1	225	S 45 W	93	3.5	348	N 11	W
4226.0	8.	3.4	252	S 72 W	90	3.2	344	N 15	W
4228.0	8.	3.7	231	S 51 W	89	3.4	343	N 16	W
4232.0	8.	6.0	132	S 47 E	98	4.0	353	N 6	W
4234.0	8.	7.3	111	S 68 E	100	4.3	352	N 7	W
4236.0	8.	9.3	92	S 87 E	100	4.8	353	N 6	W
4238.0	8.	9.9	74	N 74 E	97	5.3	346	N 13	W
4240.0	8.	11.4	55	N 55 E	89	5.4	349	N 10	W
4242.0	8.	11.1	12	N 12 E	75	4.2	341	N 18	W
4244.0	8.	11.3	319	N 40 W	65	3.3	347	N 12	W
4246.0	8.	12.2	301	N 58 W	58	2.7	357	N 2	W
4248.0	8.	11.1	303	N 56 W	63	2.6	359	N 0	W
4250.0	8.	6.2	330	N 29 W	74	2.3	342	N 17	W
4252.0	8.	3.0	342	N 17 W	93	2.1	347	N 12	W
4254.0	8.	2.1	81	N 81 E	94	2.3	344	N 15	W
4256.0	8.	3.5	100	S 79 E	100	2.7	342	N 17	W
4258.0	8.	3.0	101	S 78 E	100	3.0	343	N 16	W
4260.0	8.	1.9	90	S 89 E	100	3.1	345	N 14	W
4262.0	8.	1.2	75	N 75 E	96	3.2	342	N 17	W
4264.0	8.	0.9	345	N 14 W	96	3.4	341	N 18	W
4266.0	8.	2.3	79	N 79 E	92	3.6	340	N 19	W
4268.0	8.	4.7	94	S 85 E	92	3.6	340	N 19	W
4270.0	8.	4.6	79	N 79 E	95	3.0	338	N 21	W
4272.0	8.	3.2	49	N 49 E	95	2.6	341	N 18	W
4282.0	8.	4.0	131	S 48 E	95	2.6	341	N 18	W
4284.0	8.	4.1	136	S 43 E	100	2.7	341	N 18	W
4286.0	8.	3.0	172	S 7 E	100	2.8	338	N 21	W
4288.0	8.	2.7	200	S 20 W	100	2.7	336	N 23	W
4290.0	8.	2.5	226	S 46 W	97	2.6	339	N 20	W
4292.0	8.	4.1	212	S 32 W	97	2.5	351	N 8	W
4294.0	8.	4.6	202	S 22 W	94	2.5	350	N 9	W
4296.0	8.	5.4	191	S 11 W	94	2.6	350	N 9	W
4300.0	8.	4.6	179	S 0 E	100	3.3	352	N 7	W
4302.0	8.	4.5	173	S 6 E	100	3.2	350	N 9	W
4304.0	8.	3.3	166	S 13 E	100	2.8	344	N 15	W
4306.0	8.	2.3	179	S 0 E	100	2.8	351	N 8	W
4308.0	8.	1.3	189	S 9 W	100	2.7	349	N 10	W

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4310.0	8.	0.8	214	S 34 W	100	2.7	350	N 9 W	
4312.0	8.	0.8	219	S 39 W	100	2.5	351	N 8 W	
4314.0	8.	1.5	337	N 22 W	100	2.5	349	N 10 W	
4316.0	8.	3.7	345	N 14 W	98	2.5	349	N 10 W	
4318.0	8.	4.4	339	N 20 W	95	2.5	344	N 15 W	
4320.0	8.	4.3	336	N 23 W	95	2.4	350	N 9 W	
4326.0	8.	1.8	237	S 57 W	100	3.1	342	N 17 W	
4328.0	8.	3.7	245	S 65 W	100	3.1	343	N 16 W	
4330.0	8.	4.7	248	S 68 W	100	2.8	342	N 17 W	
4332.0	8.	4.3	245	S 65 W	100	2.0	343	N 16 W	
4334.0	8.	3.4	226	S 46 W	100	2.0	345	N 14 W	
4336.0	8.	3.3	201	S 21 W	100	2.0	348	N 11 W	
4338.0	8.	3.1	170	S 9 E	100	2.0	347	N 12 W	
4340.0	8.	4.1	176	S 3 E	98	2.0	346	N 13 W	
4342.0	8.	3.7	178	S 1 E	98	2.0	346	N 13 W	
4344.0	8.	4.6	195	S 15 W	98	2.0	346	N 13 W	
4346.0	8.	5.5	208	S 28 W	100	2.2	344	N 15 W	
4348.0	8.	4.9	212	S 32 W	100	2.5	338	N 21 W	
4350.0	8.	5.7	210	S 30 W	100	2.8	344	N 15 W	
4352.0	8.	4.4	202	S 22 W	100	3.0	342	N 17 W	
4354.0	8.	1.3	183	S 3 W	98	3.2	339	N 20 W	
4356.0	8.	1.8	12	N 12 E	98	3.3	343	N 16 W	
4358.0	8.	5.3	338	N 21 W	98	3.2	348	N 11 W	
4360.0	8.	6.9	331	N 28 W	96	3.1	347	N 12 W	
4362.0	8.	9.7	307	N 52 W	96	3.1	59	N 59 E	
4364.0	8.	4.5	312	N 47 W	96	3.0	355	N 4 W	
4366.0	8.	2.2	332	N 27 W	100	3.2	349	N 10 W	
4368.0	8.	5.2	41	N 41 E	100	3.4	273	N 86 W	
4370.0	8.	2.3	97	S 82 E	100	3.5	352	N 7 W	
4372.0	8.	1.7	168	S 11 E	100	3.6	353	N 6 W	
4374.0	8.	4.5	216	S 36 W	100	3.7	356	N 3 W	
4378.0	8.	9.0	225	S 45 W	93	3.9	357	N 2 W	
4380.0	8.	7.2	210	S 30 W	93	3.6	358	N 1 W	
4382.0	8.	5.2	181	S 1 W	90	3.5	358	N 1 W	
4384.0	8.	3.4	139	S 40 E	94	2.8	354	N 5 W	
4386.0	8.	2.5	95	S 84 E	96	2.5	354	N 5 W	
4388.0	8.	3.0	32	N 32 E	96	2.5	353	N 6 W	
4390.0	8.	2.1	326	N 33 W	100	2.6	353	N 6 W	
4392.0	8.	4.0	289	N 70 W	100	2.7	355	N 4 W	
4394.0	8.	4.2	285	N 74 W	96	2.8	354	N 5 W	

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DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4396.0	8.	3.3	297	N 62 W	96	2.8	358	N 1 W	
4398.0	8.	3.7	6	N 6 E	96	2.6	357	N 2 W	
4400.0	8.	5.4	28	N 28 E	96	2.2	3	N 3 E	
4412.0	8.	3.5	288	N 71 W	80	0.8	2	N 2 E	
4414.0	8.	0.9	277	N 82 W	88	0.8	348	N 11 W	
4416.0	8.	1.0	99	S 80 E	100	0.8	347	N 12 W	
4418.0	8.	3.7	79	N 79 E	100	0.8	348	N 11 W	
4420.0	8.	4.9	73	N 73 E	100	0.4	344	N 15 W	
4422.0	8.	4.9	47	N 47 E	100	0.4	345	N 14 W	
4424.0	8.	4.7	39	N 39 E	100	0.4	346	N 13 W	
4426.0	8.	4.1	37	N 37 E	100	0.4	352	N 7 W	
4428.0	8.	3.7	36	N 36 E	100	0.4	358	N 1 W	
4430.0	8.	0.8	70	N 70 E	100	0.2	358	N 1 W	
4432.0	8.	4.8	215	S 35 W	100	0.1	357	N 2 W	
4434.0	8.	10.2	217	S 37 W	100	0.1	356	N 3 W	
4436.0	8.	13.9	219	S 39 W	100	0.1	354	N 5 W	
4438.0	8.	14.6	217	S 37 W	100	0.2	352	N 7 W	
4440.0	8.	12.7	216	S 36 W	100	0.1	351	N 8 W	
4442.0	8.	9.8	219	S 39 W	100	0.1	357	N 2 W	
4444.0	8.	6.5	226	S 46 W	100	0.1	357	N 2 W	
4446.0	8.	3.7	238	S 58 W	100	0.1	358	N 1 W	
4448.0	8.	1.8	245	S 65 W	100	0.0	357	N 2 W	
4450.0	8.	1.0	225	S 45 W	100	0.1	355	N 4 W	
4452.0	8.	0.8	216	S 36 W	100	0.1	351	N 8 W	
4454.0	8.	1.3	250	S 70 W	100	0.1	356	N 3 W	
4464.0	8.	4.8	233	S 53 W	98	0.3	1	N 1 E	
4466.0	8.	3.9	224	S 44 W	98	0.3	1	N 1 E	
4468.0	8.	3.1	199	S 19 W	100	0.3	1	N 1 E	
4470.0	8.	2.6	189	S 9 W	100	0.2	357	N 2 W	
4472.0	8.	2.0	181	S 1 W	100	0.2	354	N 5 W	
4474.0	8.	1.3	182	S 2 W	100	0.2	353	N 6 W	
4476.0	8.	0.1	144	S 35 E	100	0.3	359	N 0 W	
4478.0	8.	0.8	8	N 8 E	100	0.4	356	N 3 W	
4480.0	8.	1.5	0	N 0 E	100	0.6	1	N 1 E	
4482.0	8.	2.2	354	N 5 W	100	0.6	1	N 1 E	
4484.0	8.	2.3	342	N 17 W	97	0.6	355	N 4 W	
4486.0	8.	2.7	328	N 31 W	97	0.6	2	N 2 E	
4488.0	8.	2.5	314	N 45 W	97	0.6	1	N 1 E	
4490.0	8.	2.0	303	N 56 W	97	0.6	3	N 3 E	
4492.0	8.	1.3	305	N 54 W	100	0.6	2	N 2 E	

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DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4494.0	8.	0.5	33	N 33 E	100	0.6	0	N 0	E
4496.0	8.	0.9	85	N 85 E	100	0.7	0	N 0	E
4498.0	8.	0.6	103	S 76 E	100	0.7	10	N 10	E
4500.0	8.	0.5	224	S 44 W	100	0.7	7	N 7	E
4502.0	8.	2.3	267	S 87 W	100	0.8	7	N 7	E
4504.0	8.	3.5	279	N 80 W	100	0.8	6	N 6	E
4506.0	8.	4.4	282	N 77 W	100	0.8	5	N 5	E
4508.0	8.	4.1	274	N 85 W	100	0.8	3	N 3	E
4510.0	8.	3.8	262	S 82 W	100	0.8	3	N 3	E
4512.0	8.	3.7	239	S 59 W	100	0.8	2	N 2	E
4514.0	8.	4.6	234	S 54 W	97	0.7	359	N 0	W
4518.0	8.	4.1	308	N 51 W	95	0.7	2	N 2	E
4520.0	8.	6.4	324	N 35 W	95	0.7	0	N 0	E
4522.0	8.	7.0	346	N 13 W	96	0.7	3	N 3	E
4524.0	8.	5.7	357	N 2 W	93	0.8	1	N 1	E
4526.0	8.	2.1	42	N 42 E	90	0.7	358	N 1	W
4538.0	8.	3.3	156	S 23 E	72	1.0	1	N 1	E
4540.0	8.	0.4	319	N 40 W	57	0.9	2	N 2	E
4542.0	8.	2.1	256	S 76 W	51	0.8	1	N 1	E
4544.0	8.	5.9	252	S 72 W	55	0.7	0	N 0	E
4546.0	8.	6.6	236	S 56 W	74	0.6	357	N 2	W
4548.0	8.	7.0	217	S 37 W	89	0.6	4	N 4	E
4550.0	8.	4.9	206	S 26 W	96	0.6	0	N 0	E
4552.0	8.	3.0	190	S 10 W	97	0.7	0	N 0	E
4554.0	8.	0.9	202	S 22 W	100	0.8	359	N 0	W
4556.0	8.	1.4	258	S 78 W	100	0.8	357	N 2	W
4558.0	8.	2.3	253	S 73 W	100	0.7	353	N 6	W
4560.0	8.	2.2	248	S 68 W	100	0.3	352	N 7	W
4562.0	8.	1.8	236	S 56 W	100	0.4	349	N 10	W
4564.0	8.	1.1	225	S 45 W	100	0.4	354	N 5	W
4566.0	8.	0.9	264	S 84 W	100	0.4	1	N 1	E
4568.0	8.	1.1	294	N 65 W	100	0.4	5	N 5	E
4570.0	8.	2.5	312	N 47 W	100	0.4	267	S 87	W
4572.0	8.	5.1	280	N 79 W	97	0.3	4	N 4	E
4574.0	8.	6.5	265	S 85 W	92	0.3	4	N 4	E
4576.0	8.	9.8	249	S 69 W	92	0.5	7	N 7	E
4578.0	8.	13.2	240	S 60 W	92	0.5	8	N 8	E
4580.0	8.	12.9	247	S 67 W	98	0.4	6	N 6	E
4582.0	8.	12.6	260	S 80 W	94	0.5	2	N 2	E
4592.0	8.	1.3	274	N 85 W	93	0.4	355	N 4	W

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DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4594.0	8.	0.2	350	N 9 W	100	0.3	356	N 3 W	
4596.0	8.	0.4	321	N 38 W	100	0.3	355	N 4 W	
4598.0	8.	0.8	304	N 55 W	100	0.2	356	N 3 W	
4600.0	8.	0.6	278	N 81 W	100	0.2	358	N 1 W	
4602.0	8.	0.5	335	N 24 W	100	0.2	4	N 4 E	
4604.0	8.	0.8	15	N 15 E	100	0.2	0	N 0 E	
4606.0	8.	1.2	10	N 10 E	100	0.2	8	N 8 E	
4608.0	8.	1.2	2	N 2 E	100	0.2	6	N 6 E	
4610.0	8.	1.3	355	N 4 W	100	0.2	5	N 5 E	
4612.0	8.	1.8	353	N 6 W	100	0.2	4	N 4 E	
4614.0	8.	2.0	358	N 1 W	100	0.3	3	N 3 E	
4616.0	8.	2.4	5	N 5 E	100	0.2	3	N 3 E	
4618.0	8.	1.7	17	N 17 E	100	0.3	4	N 4 E	
4620.0	8.	1.0	58	N 58 E	100	0.3	4	N 4 E	
4622.0	8.	1.4	104	S 75 E	100	0.3	3	N 3 E	
4624.0	8.	2.3	126	S 53 E	100	0.4	3	N 3 E	
4636.0	8.	2.1	247	S 67 W	100	0.5	2	N 2 E	
4638.0	8.	0.3	358	N 1 W	99	0.5	9	N 9 E	
4640.0	8.	2.4	52	N 52 E	99	0.6	16	N 16 E	
4642.0	8.	3.8	29	N 29 E	97	0.5	15	N 15 E	
4644.0	8.	6.0	20	N 20 E	90	0.6	16	N 16 E	
4646.0	8.	8.8	26	N 26 E	91	0.5	15	N 15 E	
4652.0	8.	3.3	310	N 49 W	96	0.5	14	N 14 E	
4658.0	8.	1.7	274	N 85 W	100	0.3	15	N 15 E	
4660.0	8.	1.6	298	N 61 W	100	0.4	14	N 14 E	
4662.0	8.	2.2	326	N 33 W	100	0.6	14	N 14 E	
4664.0	8.	1.7	315	N 44 W	100	1.1	16	N 16 E	
4666.0	8.	1.3	307	N 52 W	100	1.4	13	N 13 E	
4668.0	8.	0.9	227	S 47 W	100	1.5	13	N 13 E	
4670.0	8.	1.0	213	S 33 W	100	1.5	14	N 14 E	
4672.0	8.	1.0	234	S 54 W	100	1.4	14	N 14 E	
4674.0	8.	0.9	258	S 78 W	96	1.4	14	N 14 E	
4676.0	8.	1.6	358	N 1 W	92	1.1	14	N 14 E	
4678.0	8.	1.3	334	N 25 W	92	1.3	15	N 15 E	
4680.0	8.	1.6	302	N 57 W	94	1.3	15	N 15 E	
4682.0	8.	2.9	282	N 77 W	97	1.3	14	N 14 E	
4684.0	8.	2.9	268	S 88 W	100	1.4	15	N 15 E	
4686.0	8.	2.5	287	N 72 W	100	1.4	15	N 15 E	
4688.0	8.	1.3	303	N 56 W	100	1.4	15	N 15 E	
4690.0	8.	0.9	298	N 61 W	100	1.4	14	N 14 E	

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DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4692.0	8.	0.5	294	N 65 W	100	1.4	15	N 15 E	
4694.0	8.	0.5	304	N 55 W	100	1.2	15	N 15 E	
4696.0	8.	1.5	327	N 32 W	100	0.6	15	N 15 E	
4698.0	8.	2.7	318	N 41 W	100	0.5	13	N 13 E	
4700.0	8.	5.4	327	N 32 W	96	0.4	15	N 15 E	
4702.0	8.	7.6	334	N 25 W	93	0.4	15	N 15 E	
4704.0	8.	9.7	337	N 22 W	90	0.5	15	N 15 E	
4706.0	8.	8.1	341	N 18 W	76	0.5	17	N 17 E	
4708.0	8.	2.0	19	N 19 E	78	0.8	15	N 15 E	
4710.0	8.	2.5	106	S 73 E	82	1.1	11	N 11 E	
4712.0	8.	1.8	122	S 57 E	93	1.1	16	N 16 E	
4714.0	8.	1.5	8	N 8 E	98	1.2	21	N 21 E	
4716.0	8.	3.3	348	N 11 W	97	1.2	20	N 20 E	
4718.0	8.	3.4	349	N 10 W	93	1.4	21	N 21 E	
4720.0	8.	2.6	347	N 12 W	90	1.6	20	N 20 E	
4722.0	8.	1.6	43	N 43 E	90	1.5	21	N 21 E	
4724.0	8.	2.2	89	N 89 E	83	1.5	19	N 19 E	
4726.0	8.	5.3	90	S 89 E	87	1.6	15	N 15 E	
4728.0	8.	7.3	65	N 65 E	88	1.6	14	N 14 E	
4730.0	8.	8.5	57	N 57 E	81	1.4	18	N 18 E	
4732.0	8.	5.2	59	N 59 E	82	1.6	17	N 17 E	
4734.0	8.	5.0	87	N 87 E	82	1.9	14	N 14 E	
4740.0	8.	7.6	157	S 22 E	93	3.4	14	N 14 E	
4742.0	8.	7.7	172	S 7 E	77	3.6	14	N 14 E	
4746.0	8.	7.5	77	N 77 E	75	3.9	15	N 15 E	
4748.0	8.	4.3	67	N 67 E	86	4.0	15	N 15 E	
4750.0	8.	3.0	325	N 34 W	84	4.0	15	N 15 E	
4752.0	8.	9.2	283	N 76 W	75	4.0	15	N 15 E	
4754.0	8.	11.9	285	N 74 W	70	4.1	14	N 14 E	
4756.0	8.	10.5	301	N 58 W	71	4.1	16	N 16 E	
4758.0	8.	8.1	295	N 64 W	76	4.1	9	N 9 E	
4760.0	8.	6.1	311	N 48 W	87	4.1	11	N 11 E	
4762.0	8.	5.8	293	N 66 W	89	3.9	13	N 13 E	
4764.0	8.	6.3	274	N 85 W	91	4.0	13	N 13 E	
4766.0	8.	8.0	256	S 76 W	88	3.9	16	N 16 E	
4768.0	8.	6.6	240	S 60 W	88	3.9	18	N 18 E	
4770.0	8.	3.7	178	S 1 E	92	3.7	13	N 13 E	
4772.0	8.	5.9	112	S 67 E	92	3.5	12	N 12 E	
4774.0	8.	8.9	97	S 82 E	93	3.8	11	N 11 E	
4776.0	8.	6.6	84	N 84 E	82	4.0	13	N 13 E	

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DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4778.0	8.	5.6	33	N 33 E	80	4.0	12	N 12 E	
4780.0	8.	6.8	359	N 0 W	85	3.8	15	N 15 E	
4782.0	8.	6.8	352	N 7 W	94	3.6	14	N 14 E	
4784.0	8.	6.5	337	N 22 W	100	3.5	12	N 12 E	
4786.0	8.	5.8	345	N 14 W	99	3.5	10	N 10 E	
4788.0	8.	6.4	338	N 21 W	97	3.4	13	N 13 E	
4790.0	8.	7.8	321	N 38 W	94	3.4	12	N 12 E	
4792.0	8.	8.6	303	N 56 W	91	3.1	12	N 12 E	
4794.0	8.	6.4	284	N 75 W	93	3.2	3	N 3 E	
4796.0	8.	6.1	261	S 81 W	95	3.2	3	N 3 E	
4798.0	8.	0.8	197	S 17 W	100	3.2	358	N 1 W	
4800.0	8.	1.3	78	N 78 E	100	3.4	355	N 4 W	
4802.0	8.	1.7	62	N 62 E	99	3.2	0	N 0 E	
4810.0	8.	1.6	260	S 80 W	100	3.4	357	N 2 W	
4812.0	8.	3.2	244	S 64 W	100	3.3	353	N 6 W	
4814.0	8.	3.2	234	S 54 W	100	3.3	0	N 0 E	
4816.0	8.	3.1	244	S 64 W	100	3.4	358	N 1 W	
4818.0	8.	3.5	245	S 65 W	100	3.3	0	N 0 E	
4820.0	8.	4.8	239	S 59 W	100	3.4	355	N 4 W	
4828.0	8.	3.4	166	S 13 E	87	3.4	340	N 19 W	
4830.0	8.	4.0	122	S 57 E	94	3.5	307	N 52 W	
4832.0	8.	4.1	108	S 71 E	100	3.3	285	N 74 W	
4834.0	8.	3.5	64	N 64 E	100	3.2	234	S 54 W	
4836.0	8.	2.8	347	N 12 W	100	2.9	160	S 19 E	
4838.0	8.	2.5	42	N 42 E	94	1.8	239	S 59 W	
4840.0	8.	0.3	230	S 50 W	88	1.6	4	N 4 E	
4854.0	8.	5.2	266	S 86 W	100	1.5	1	N 1 E	
4856.0	8.	4.6	267	S 87 W	100	1.4	1	N 1 E	
4858.0	8.	3.9	282	N 77 W	100	1.4	1	N 1 E	
4860.0	8.	3.2	296	N 63 W	100	1.5	0	N 0 E	
4862.0	8.	1.9	332	N 27 W	100	1.7	359	N 0 W	
4864.0	8.	1.6	355	N 4 W	100	1.8	358	N 1 W	
4866.0	8.	1.5	23	N 23 E	100	1.8	357	N 2 W	
4868.0	8.	1.0	2	N 2 E	100	1.8	356	N 3 W	
4870.0	8.	1.2	338	N 21 W	100	1.7	352	N 7 W	
4872.0	8.	1.2	328	N 31 W	100	1.7	346	N 13 W	
4874.0	8.	1.4	308	N 51 W	100	1.6	349	N 10 W	
4876.0	8.	1.4	308	N 51 W	100	1.4	350	N 9 W	
4878.0	8.	1.4	309	N 50 W	100	1.3	351	N 8 W	
4880.0	8.	1.2	304	N 55 W	100	1.5	350	N 9 W	

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4882.0	8.	1.1	282	N 77 W	100	1.6	354	N 5	W
4884.0	8.	1.0	286	N 73 W	100	1.6	359	N 0	W
4886.0	8.	0.8	275	N 84 W	100	1.5	349	N 10	W
4888.0	8.	0.8	20	N 20 E	100	1.4	314	N 45	W
4896.0	8.	1.2	290	N 69 W	100	1.1	3	N 3	E
4898.0	8.	1.2	328	N 31 W	100	1.1	0	N 0	E
4900.0	8.	3.2	358	N 1 W	100	1.3	1	N 1	E
4902.0	8.	3.2	7	N 7 E	97	1.4	0	N 0	E
4904.0	8.	0.9	43	N 43 E	97	1.1	1	N 1	E
4906.0	8.	3.6	181	S 1 W	97	1.2	3	N 3	E
4910.0	8.	7.4	205	S 25 W	100	1.1	9	N 9	E
4912.0	8.	7.5	223	S 43 W	100	1.2	8	N 8	E
4914.0	8.	8.1	236	S 56 W	100	1.2	9	N 9	E
4916.0	8.	8.9	240	S 60 W	100	1.2	18	N 18	E
4918.0	8.	7.8	232	S 52 W	100	1.4	13	N 13	E
4920.0	8.	5.9	225	S 45 W	100	1.4	8	N 8	E
4922.0	8.	4.1	199	S 19 W	100	1.4	4	N 4	E
4924.0	8.	2.9	170	S 9 E	100	1.5	1	N 1	E
4926.0	8.	2.9	137	S 42 E	100	1.3	1	N 1	E
4928.0	8.	3.1	130	S 49 E	100	1.1	7	N 7	E
4930.0	8.	2.6	128	S 51 E	100	0.9	6	N 6	E
4932.0	8.	1.8	138	S 41 E	100	0.7	11	N 11	E
4934.0	8.	1.1	174	S 5 E	100	0.9	8	N 8	E
4936.0	8.	1.1	195	S 15 W	100	1.0	7	N 7	E
4952.0	8.	1.7	171	S 8 E	89	1.1	13	N 13	E
4956.0	8.	6.3	312	N 47 W	91	0.9	10	N 10	E
4958.0	8.	5.4	309	N 50 W	94	1.2	15	N 15	E
4960.0	8.	3.8	309	N 50 W	99	1.2	16	N 16	E
4962.0	8.	2.6	329	N 30 W	100	1.2	24	N 24	E
4964.0	8.	1.7	327	N 32 W	100	1.2	20	N 20	E
4966.0	8.	1.6	326	N 33 W	100	1.2	16	N 16	E
4968.0	8.	2.9	344	N 15 W	100	1.1	16	N 16	E
4970.0	8.	3.8	345	N 14 W	100	1.2	16	N 16	E
4972.0	8.	4.0	341	N 18 W	100	1.2	17	N 17	E
4974.0	8.	2.5	336	N 23 W	100	1.2	17	N 17	E
4976.0	8.	0.3	307	N 52 W	100	1.2	17	N 17	E
4978.0	8.	1.4	146	S 33 E	100	1.2	16	N 16	E
4980.0	8.	2.2	140	S 39 E	100	1.2	16	N 16	E
4982.0	8.	2.6	140	S 39 E	100	1.2	15	N 15	E
4984.0	8.	2.7	133	S 46 E	100	1.2	14	N 14	E

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
4986.0	8.	2.6	131	S 48 E	100	1.2	11	N 11 E	
4988.0	8.	2.5	125	S 54 E	100	1.2	8	N 8 E	
4990.0	8.	2.1	124	S 55 E	100	1.2	21	N 21 E	
4992.0	8.	2.1	125	S 54 E	100	1.2	18	N 18 E	
4994.0	8.	2.1	125	S 54 E	100	1.2	16	N 16 E	
4996.0	8.	1.6	133	S 46 E	100	1.1	25	N 25 E	
4998.0	8.	0.9	89	N 89 E	97	1.1	27	N 27 E	
5006.0	8.	2.5	49	N 49 E	95	1.1	32	N 32 E	
5008.0	8.	2.6	74	N 74 E	100	1.1	28	N 28 E	
5010.0	8.	2.8	86	N 86 E	100	1.1	31	N 31 E	
5012.0	8.	2.7	94	S 85 E	100	1.1	31	N 31 E	
5014.0	8.	3.1	97	S 82 E	100	1.1	33	N 33 E	
5016.0	8.	3.1	98	S 81 E	100	1.2	38	N 38 E	
5018.0	8.	2.6	96	S 83 E	100	1.1	35	N 35 E	
5020.0	8.	2.1	83	N 83 E	100	1.0	31	N 31 E	
5022.0	8.	1.8	51	N 51 E	100	1.0	30	N 30 E	
5024.0	8.	1.4	358	N 1 W	94	1.0	42	N 42 E	
5026.0	8.	1.8	326	N 33 W	90	1.1	54	N 54 E	
5028.0	8.	2.0	346	N 13 W	90	1.2	56	N 56 E	
5030.0	8.	0.8	293	N 66 W	91	1.2	47	N 47 E	
5032.0	8.	0.3	346	N 13 W	100	1.2	39	N 39 E	
5034.0	8.	0.3	22	N 22 E	100	1.2	40	N 40 E	
5036.0	8.	0.6	48	N 48 E	100	1.1	41	N 41 E	
5038.0	8.	0.4	49	N 49 E	100	1.0	40	N 40 E	
5040.0	8.	0.6	144	S 35 E	100	1.0	37	N 37 E	
5042.0	8.	1.2	173	S 6 E	100	1.2	36	N 36 E	
5044.0	8.	1.4	174	S 5 E	100	1.2	39	N 39 E	
5046.0	8.	1.0	152	S 27 E	100	1.2	38	N 38 E	
5048.0	8.	0.7	103	S 76 E	100	1.2	39	N 39 E	
5050.0	8.	0.8	69	N 69 E	100	1.3	39	N 39 E	
5052.0	8.	0.9	59	N 59 E	100	1.3	39	N 39 E	
5054.0	8.	0.7	58	N 58 E	100	1.3	39	N 39 E	
5056.0	8.	0.4	58	N 58 E	100	1.3	39	N 39 E	
5058.0	8.	0.1	101	S 78 E	100	1.3	39	N 39 E	
5060.0	8.	0.4	234	S 54 W	100	1.3	38	N 38 E	
5062.0	8.	0.8	240	S 60 W	100	1.2	38	N 38 E	
5064.0	8.	1.1	232	S 52 W	100	1.1	38	N 38 E	
5066.0	8.	1.0	225	S 45 W	100	0.9	37	N 37 E	
5068.0	8.	0.7	189	S 9 W	100	0.8	38	N 38 E	
5070.0	8.	1.2	145	S 34 E	100	0.8	38	N 38 E	

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
5072.0	8.	1.6	138	S 41 E	94	1.0	37	N 37 E	
5074.0	8.	0.8	31	N 31 E	75	1.1	42	N 42 E	
5076.0	8.	2.3	356	N 3 W	66	1.2	38	N 38 E	
5078.0	8.	2.1	351	N 8 W	66	1.2	36	N 36 E	
5080.0	8.	0.9	23	N 23 E	81	1.1	37	N 37 E	
5082.0	8.	1.8	139	S 40 E	100	1.2	51	N 51 E	
5084.0	8.	2.1	139	S 40 E	100	1.3	50	N 50 E	
5086.0	8.	1.8	133	S 46 E	100	1.4	50	N 50 E	
5088.0	8.	1.1	119	S 60 E	100	1.3	51	N 51 E	
5090.0	8.	0.8	48	N 48 E	89	1.2	53	N 53 E	
5092.0	8.	2.3	276	N 83 W	76	1.3	52	N 52 E	
5094.0	8.	4.1	264	S 84 W	70	1.6	51	N 51 E	
5100.0	8.	1.7	242	S 62 W	100	1.4	38	N 38 E	
5102.0	8.	1.1	255	S 75 W	100	0.9	34	N 34 E	
5104.0	8.	0.3	253	S 73 W	100	0.7	31	N 31 E	
5106.0	8.	1.2	252	S 72 W	98	0.8	37	N 37 E	
5118.0	8.	10.1	85	N 85 E	85	0.7	37	N 37 E	
5120.0	8.	6.5	121	S 58 E	78	0.8	35	N 35 E	
5126.0	8.	4.2	60	N 60 E	96	1.1	34	N 34 E	
5128.0	8.	6.6	71	N 71 E	100	1.3	34	N 34 E	
5130.0	8.	7.4	76	N 76 E	100	1.4	32	N 32 E	
5132.0	8.	7.1	75	N 75 E	100	1.2	32	N 32 E	
5134.0	8.	6.5	68	N 68 E	100	0.7	33	N 33 E	
5144.0	8.	1.2	179	S 0 E	54	1.0	29	N 29 E	
5146.0	8.	1.6	94	S 85 E	74	1.2	25	N 25 E	
5148.0	8.	1.9	84	N 84 E	95	1.2	28	N 28 E	
5150.0	8.	2.0	54	N 54 E	100	1.2	29	N 29 E	
5152.0	8.	2.3	26	N 26 E	100	1.2	27	N 27 E	
5154.0	8.	3.0	3	N 3 E	100	1.2	23	N 23 E	
5156.0	8.	3.9	350	N 9 W	100	1.2	18	N 18 E	
5158.0	8.	5.0	3	N 3 E	94	1.2	16	N 16 E	
5160.0	8.	5.0	19	N 19 E	92	1.2	15	N 15 E	
5162.0	8.	4.7	27	N 27 E	92	1.3	23	N 23 E	
5164.0	8.	3.1	22	N 22 E	95	1.3	21	N 21 E	
5166.0	8.	1.9	13	N 13 E	100	1.3	20	N 20 E	
5168.0	8.	2.0	330	N 29 W	100	1.3	17	N 17 E	
5170.0	8.	1.9	326	N 33 W	100	1.3	15	N 15 E	
5172.0	8.	1.9	337	N 22 W	100	1.3	13	N 13 E	
5174.0	8.	2.2	348	N 11 W	100	1.2	16	N 16 E	
5176.0	8.	2.4	8	N 8 E	100	1.2	13	N 13 E	

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		FORMATION DIP			****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5178.0	8.	2.7	8	N 8 E	100	1.1	10	N 10 E
5180.0	8.	2.7	5	N 5 E	100	1.1	22	N 22 E
5182.0	8.	1.6	27	N 27 E	100	0.9	21	N 21 E
5184.0	8.	0.9	120	S 59 E	100	0.8	20	N 20 E
5186.0	8.	2.2	155	S 24 E	100	0.9	17	N 17 E
5190.0	8.	1.7	171	S 8 E	100	1.2	15	N 15 E
5192.0	8.	1.3	126	S 53 E	100	1.2	16	N 16 E
5194.0	8.	1.6	78	N 78 E	100	1.1	15	N 15 E
5196.0	8.	2.3	92	S 87 E	100	1.0	15	N 15 E
5198.0	8.	2.3	140	S 39 E	98	1.1	14	N 14 E
5200.0	8.	4.6	172	S 7 E	92	1.2	17	N 17 E
5202.0	8.	5.4	185	S 5 W	87	1.2	18	N 18 E
5204.0	8.	6.2	188	S 8 W	83	1.2	15	N 15 E
5206.0	8.	3.7	189	S 9 W	89	1.1	13	N 13 E
5208.0	8.	0.3	326	N 33 W	93	1.1	10	N 10 E
5210.0	8.	0.4	168	S 11 E	100	1.1	7	N 7 E
5212.0	8.	0.2	186	S 6 W	100	1.1	5	N 5 E
5214.0	8.	0.2	231	S 51 W	100	1.1	3	N 3 E
5216.0	8.	0.4	279	N 80 W	100	1.1	3	N 3 E
5218.0	8.	1.2	290	N 69 W	100	1.1	359	N 0 W
5220.0	8.	1.9	285	N 74 W	100	1.1	358	N 1 W
5222.0	8.	2.4	276	N 83 W	100	1.1	354	N 5 W
5224.0	8.	3.0	256	S 76 W	100	1.2	11	N 11 E
5226.0	8.	2.3	234	S 54 W	100	1.2	4	N 4 E
5228.0	8.	2.0	207	S 27 W	100	1.2	355	N 4 W
5230.0	8.	1.5	174	S 5 E	100	1.2	347	N 12 W
5232.0	8.	1.1	257	S 77 W	100	1.1	73	N 73 E
5234.0	8.	1.2	194	S 14 W	100	1.1	4	N 4 E
5236.0	8.	1.5	189	S 9 W	100	1.2	4	N 4 E
5238.0	8.	1.6	180	S 0 W	100	1.0	3	N 3 E
5240.0	8.	2.0	172	S 7 E	100	1.0	1	N 1 E
5242.0	8.	1.9	156	S 23 E	100	1.0	359	N 0 W
5244.0	8.	2.0	146	S 33 E	100	0.9	358	N 1 W
5246.0	8.	1.9	142	S 37 E	100	0.9	357	N 2 W
5248.0	8.	1.5	140	S 39 E	100	0.8	358	N 1 W
5250.0	8.	1.1	158	S 21 E	100	0.8	356	N 3 W
5252.0	8.	1.0	180	S 0 W	100	0.8	355	N 4 W
5254.0	8.	1.0	187	S 7 W	100	0.8	355	N 4 W
5256.0	8.	0.8	186	S 6 W	100	0.8	356	N 3 W
5258.0	8.	0.5	163	S 16 E	100	0.8	356	N 3 W

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
5260.0	8.	0.3	84	N 84 E	100	0.6	356	N 3	W
5262.0	8.	0.2	10	N 10 E	100	0.5	356	N 3	W
5264.0	8.	0.3	204	S 24 W	100	0.6	355	N 4	W
5266.0	8.	1.2	198	S 18 W	100	0.8	352	N 7	W
5268.0	8.	1.7	197	S 17 W	100	0.8	352	N 7	W
5270.0	8.	1.7	193	S 13 W	100	0.8	358	N 1	W
5272.0	8.	1.4	199	S 19 W	100	0.8	358	N 1	W
5274.0	8.	1.0	307	N 52 W	100	0.8	355	N 4	W
5276.0	8.	2.5	328	N 31 W	100	0.7	352	N 7	W
5282.0	8.	1.1	298	N 61 W	100	0.7	354	N 5	W
5284.0	8.	0.4	234	S 54 W	100	0.6	352	N 7	W
5286.0	8.	0.2	225	S 45 W	100	0.6	10	N 10	E
5288.0	8.	0.2	322	N 37 W	100	0.7	8	N 8	E
5290.0	8.	0.1	19	N 19 E	100	0.8	3	N 3	E
5292.0	8.	1.0	41	N 41 E	100	0.8	358	N 1	W
5294.0	8.	3.3	40	N 40 E	100	0.8	1	N 1	E
5296.0	8.	6.1	24	N 24 E	96	0.8	359	N 0	W
5298.0	8.	9.2	5	N 5 E	96	0.8	356	N 3	W
5300.0	8.	10.9	352	N 7 W	96	0.7	355	N 4	W
5302.0	8.	9.5	343	N 16 W	96	0.7	6	N 6	E
5304.0	8.	6.6	341	N 18 W	100	0.8	13	N 13	E
5306.0	8.	3.7	346	N 13 W	100	0.8	11	N 11	E
5308.0	8.	1.9	12	N 12 E	100	0.8	10	N 10	E
5310.0	8.	1.1	34	N 34 E	100	0.8	9	N 9	E
5312.0	8.	0.6	69	N 69 E	100	0.9	19	N 19	E
5314.0	8.	0.8	124	S 55 E	100	0.9	18	N 18	E
5316.0	8.	1.3	131	S 48 E	100	0.9	17	N 17	E
5318.0	8.	1.4	134	S 45 E	100	0.9	16	N 16	E
5320.0	8.	1.7	133	S 46 E	100	0.8	15	N 15	E
5322.0	8.	1.8	136	S 43 E	100	0.8	15	N 15	E
5324.0	8.	1.7	145	S 34 E	100	0.7	14	N 14	E
5326.0	8.	1.5	146	S 33 E	100	0.8	12	N 12	E
5328.0	8.	1.6	157	S 22 E	100	1.0	10	N 10	E
5330.0	8.	1.8	160	S 19 E	100	1.1	358	N 1	W
5332.0	8.	2.0	163	S 16 E	95	1.0	359	N 0	W
5334.0	8.	2.5	172	S 7 E	80	1.4	358	N 1	W
5336.0	8.	1.6	165	S 14 E	67	1.5	353	N 6	W
5342.0	8.	2.5	105	S 74 E	73	1.2	5	N 5	E
5344.0	8.	4.0	115	S 64 E	77	1.0	4	N 4	E
5346.0	8.	4.7	117	S 62 E	82	0.8	353	N 6	W

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
5348.0	8.	5.7	136	S 43 E	90	0.8	18	N 18 E	
5350.0	8.	2.6	126	S 53 E	98	0.8	14	N 14 E	
5352.0	8.	1.2	106	S 73 E	100	0.9	10	N 10 E	
5354.0	8.	0.4	73	N 73 E	100	0.9	5	N 5 E	
5356.0	8.	0.3	249	S 69 W	100	1.0	23	N 23 E	
5358.0	8.	0.5	168	S 11 E	100	1.0	19	N 19 E	
5360.0	8.	0.7	137	S 42 E	100	1.0	14	N 14 E	
5362.0	8.	0.7	127	S 52 E	100	1.0	11	N 11 E	
5364.0	8.	0.8	101	S 78 E	100	1.0	6	N 6 E	
5366.0	8.	0.6	87	N 87 E	100	1.0	16	N 16 E	
5368.0	8.	0.9	64	N 64 E	100	1.0	15	N 15 E	
5370.0	8.	1.1	44	N 44 E	100	1.0	10	N 10 E	
5372.0	8.	0.9	14	N 14 E	100	1.0	17	N 17 E	
5374.0	8.	0.5	357	N 2 W	100	1.0	15	N 15 E	
5376.0	8.	0.3	269	S 89 W	100	1.0	11	N 11 E	
5378.0	8.	0.4	211	S 31 W	100	1.0	8	N 8 E	
5380.0	8.	0.5	224	S 44 W	100	1.0	6	N 6 E	
5382.0	8.	1.0	240	S 60 W	100	1.1	5	N 5 E	
5384.0	8.	1.0	246	S 66 W	100	1.2	4	N 4 E	
5386.0	8.	1.1	247	S 67 W	100	1.3	4	N 4 E	
5388.0	8.	0.8	252	S 72 W	100	1.4	4	N 4 E	
5390.0	8.	0.4	312	N 47 W	100	1.2	4	N 4 E	
5392.0	8.	0.2	27	N 27 E	100	1.1	3	N 3 E	
5400.0	8.	2.3	224	S 44 W	100	1.2	13	N 13 E	
5402.0	8.	2.2	247	S 67 W	100	1.2	13	N 13 E	
5404.0	8.	1.8	282	N 77 W	100	1.3	12	N 12 E	
5406.0	8.	2.8	344	N 15 W	96	1.2	11	N 11 E	
5408.0	8.	5.9	347	N 12 W	92	1.1	10	N 10 E	
5410.0	8.	5.6	4	N 4 E	92	1.1	6	N 6 E	
5412.0	8.	4.4	14	N 14 E	92	1.1	13	N 13 E	
5414.0	8.	2.3	31	N 31 E	95	1.1	15	N 15 E	
5416.0	8.	0.9	359	N 0 W	100	1.2	13	N 13 E	
5418.0	8.	1.1	276	N 83 W	100	1.2	8	N 8 E	
5420.0	8.	1.6	265	S 85 W	100	1.2	13	N 13 E	
5422.0	8.	2.0	259	S 79 W	100	1.3	15	N 15 E	
5424.0	8.	1.9	273	N 86 W	100	1.5	10	N 10 E	
5426.0	8.	1.9	304	N 55 W	100	1.7	6	N 6 E	
5428.0	8.	1.9	336	N 23 W	100	1.7	3	N 3 E	
5430.0	8.	2.6	338	N 21 W	100	1.4	3	N 3 E	
5432.0	8.	2.6	288	N 71 W	100	1.3	358	N 1 W	

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
5434.0	8.	2.2	296	N 63 W	96	1.1	10	N 10 E	
5436.0	8.	1.7	342	N 17 W	96	1.1	4	N 4 E	
5454.0	8.	12.5	7	N 7 E	75	1.0	10	N 10 E	
5456.0	8.	6.8	36	N 36 E	74	1.0	6	N 6 E	
5458.0	8.	5.9	359	N 0 W	70	1.1	5	N 5 E	
5464.0	8.	5.4	268	S 88 W	91	1.2	7	N 7 E	
5466.0	8.	4.8	261	S 81 W	94	1.2	1	N 1 E	
5468.0	8.	2.9	238	S 58 W	100	1.3	1	N 1 E	
5470.0	8.	2.3	270	N 89 W	100	1.2	57	N 57 E	
5472.0	8.	3.1	252	S 72 W	100	1.0	18	N 18 E	
5474.0	8.	3.4	246	S 66 W	100	0.9	14	N 14 E	
5476.0	8.	3.2	234	S 54 W	100	1.0	12	N 12 E	
5478.0	8.	2.8	221	S 41 W	100	1.0	11	N 11 E	
5480.0	8.	2.1	203	S 23 W	100	1.0	8	N 8 E	
5482.0	8.	1.7	217	S 37 W	100	1.0	38	N 38 E	
5484.0	8.	1.5	193	S 13 W	100	1.3	350	N 9 W	
5486.0	8.	2.2	243	S 63 W	100	1.3	25	N 25 E	
5492.0	8.	2.9	291	N 68 W	100	1.1	90	S 89 E	
5494.0	8.	3.6	328	N 31 W	100	0.9	187	S 7 W	
5496.0	8.	2.7	322	N 37 W	100	1.1	4	N 4 E	
5498.0	8.	5.5	345	N 14 W	100	1.0	162	S 17 E	
5506.0	8.	4.1	11	N 11 E	100	0.8	7	N 7 E	
5508.0	8.	5.7	16	N 16 E	100	0.8	5	N 5 E	
5510.0	8.	8.2	18	N 18 E	100	0.7	3	N 3 E	
5512.0	8.	9.0	13	N 13 E	100	0.7	4	N 4 E	
5522.0	8.	3.0	53	N 53 E	100	0.6	34	N 34 E	
5524.0	8.	5.5	58	N 58 E	100	0.6	35	N 35 E	
5526.0	8.	8.4	62	N 62 E	100	0.7	36	N 36 E	
5528.0	8.	10.6	59	N 59 E	100	0.7	34	N 34 E	
5530.0	8.	10.1	54	N 54 E	95	0.7	40	N 40 E	
5532.0	8.	9.8	39	N 39 E	89	0.7	39	N 39 E	
5534.0	8.	12.7	15	N 15 E	88	0.7	41	N 41 E	
5536.0	8.	15.4	13	N 13 E	85	0.7	27	N 27 E	
5538.0	8.	17.4	23	N 23 E	80	0.7	31	N 31 E	
5540.0	8.	20.4	41	N 41 E	76	0.7	36	N 36 E	
5542.0	8.	19.9	80	N 80 E	65	0.7	43	N 43 E	
5544.0	8.	18.1	123	S 56 E	68	0.7	40	N 40 E	
5546.0	8.	13.5	173	S 6 E	69	0.7	46	N 46 E	
5548.0	8.	16.8	239	S 59 W	70	0.7	41	N 41 E	
5550.0	8.	18.7	53	N 53 E	77	0.9	190	S 10 W	

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
5552.0	8.	18.8	299	N 60 W	80	0.9	18	N 18 E	
5554.0	8.	17.9	317	N 42 W	92	0.8	19	N 19 E	
5556.0	8.	16.5	336	N 23 W	96	0.9	32	N 32 E	
5558.0	8.	14.3	359	N 0 W	97	1.0	163	S 16 E	
5560.0	8.	10.5	27	N 27 E	97	0.9	307	N 52 W	
5564.0	8.	2.8	252	S 72 W	97	1.0	35	N 35 E	
5566.0	8.	8.5	243	S 63 W	98	1.1	21	N 21 E	
5568.0	8.	9.0	237	S 57 W	100	1.0	19	N 19 E	
5570.0	8.	7.2	212	S 32 W	100	1.0	13	N 13 E	
5572.0	8.	7.7	202	S 22 W	100	1.0	17	N 17 E	
5574.0	8.	8.5	196	S 16 W	100	1.0	22	N 22 E	
5576.0	8.	7.4	197	S 17 W	100	1.0	22	N 22 E	
5578.0	8.	4.9	201	S 21 W	100	1.1	18	N 18 E	
5580.0	8.	3.4	256	S 76 W	100	1.1	15	N 15 E	
5582.0	8.	7.3	289	N 70 W	100	1.3	13	N 13 E	
5584.0	8.	10.6	287	N 72 W	100	1.4	15	N 15 E	
5586.0	8.	9.5	271	N 88 W	99	1.4	15	N 15 E	
5588.0	8.	7.6	252	S 72 W	99	1.4	15	N 15 E	
5590.0	8.	6.9	228	S 48 W	99	1.5	15	N 15 E	
5592.0	8.	8.2	216	S 36 W	99	1.6	22	N 22 E	
5594.0	8.	10.2	216	S 36 W	100	1.5	9	N 9 E	
5596.0	8.	11.8	219	S 39 W	90	1.3	12	N 12 E	
5598.0	8.	12.4	208	S 28 W	84	1.1	6	N 6 E	
5600.0	8.	7.6	213	S 33 W	84	1.1	17	N 17 E	
5602.0	8.	2.6	195	S 15 W	87	1.0	20	N 20 E	
5604.0	8.	1.7	30	N 30 E	96	1.0	13	N 13 E	
5606.0	8.	1.3	17	N 17 E	100	1.0	13	N 13 E	
5608.0	8.	0.3	338	N 21 W	100	1.0	15	N 15 E	
5610.0	8.	0.3	343	N 16 W	100	1.0	14	N 14 E	
5612.0	8.	0.8	3	N 3 E	100	1.0	25	N 25 E	
5614.0	8.	0.6	328	N 31 W	100	0.9	22	N 22 E	
5616.0	8.	3.1	247	S 67 W	100	0.9	31	N 31 E	
5618.0	8.	6.5	229	S 49 W	100	1.0	28	N 28 E	
5620.0	8.	9.4	224	S 44 W	100	0.9	33	N 33 E	
5622.0	8.	11.5	225	S 45 W	100	0.8	32	N 32 E	
5624.0	8.	13.6	231	S 51 W	100	0.8	33	N 33 E	
5626.0	8.	15.2	231	S 51 W	100	0.7	38	N 38 E	
5628.0	8.	18.0	235	S 55 W	100	0.7	35	N 35 E	
5630.0	8.	20.6	239	S 59 W	100	0.6	33	N 33 E	
5632.0	8.	23.0	246	S 66 W	100	0.6	33	N 33 E	

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		FORMATION DIP				****BOREHOLE*****		
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING
5634.0	8.	23.3	242	S 62 W	100	0.6	33	N 33 E
5636.0	8.	22.1	232	S 52 W	98	0.6	34	N 34 E
5638.0	8.	17.9	219	S 39 W	96	0.6	26	N 26 E
5640.0	8.	11.2	203	S 23 W	96	0.6	25	N 25 E
5642.0	8.	11.4	204	S 24 W	95	0.6	24	N 24 E
5644.0	8.	11.8	197	S 17 W	94	0.6	34	N 34 E
5646.0	8.	15.2	220	S 40 W	92	0.6	32	N 32 E
5648.0	8.	13.2	236	S 56 W	91	0.6	31	N 31 E
5650.0	8.	10.7	252	S 72 W	93	0.6	32	N 32 E
5652.0	8.	9.9	274	N 85 W	94	0.7	29	N 29 E
5654.0	8.	10.6	238	S 58 W	97	0.7	41	N 41 E
5656.0	8.	15.0	214	S 34 W	97	0.6	40	N 40 E
5658.0	8.	16.3	209	S 29 W	100	0.6	39	N 39 E
5660.0	8.	15.5	207	S 27 W	100	0.7	61	N 61 E
5662.0	8.	13.5	213	S 33 W	100	0.7	73	N 73 E
5664.0	8.	10.3	220	S 40 W	100	0.8	70	N 70 E
5666.0	8.	7.6	226	S 46 W	100	0.8	68	N 68 E
5668.0	8.	5.3	228	S 48 W	100	0.8	66	N 66 E
5670.0	8.	3.3	228	S 48 W	100	0.8	63	N 63 E
5672.0	8.	1.7	242	S 62 W	100	0.8	61	N 61 E
5676.0	8.	2.2	212	S 32 W	100	0.8	55	N 55 E
5678.0	8.	2.6	235	S 55 W	100	0.8	54	N 54 E
5680.0	8.	3.4	229	S 49 W	100	0.8	52	N 52 E
5682.0	8.	4.2	230	S 50 W	100	0.8	55	N 55 E
5684.0	8.	4.2	222	S 42 W	100	0.8	57	N 57 E
5686.0	8.	4.0	221	S 41 W	100	0.9	52	N 52 E
5688.0	8.	3.4	221	S 41 W	100	0.9	49	N 49 E
5690.0	8.	3.2	212	S 32 W	96	0.9	49	N 49 E
5692.0	8.	1.6	123	S 56 E	93	0.8	46	N 46 E
5696.0	8.	4.5	66	N 66 E	93	0.8	42	N 42 E
5698.0	8.	3.2	60	N 60 E	97	0.9	55	N 55 E
5700.0	8.	3.1	47	N 47 E	100	0.9	55	N 55 E
5702.0	8.	3.0	7	N 7 E	96	0.9	57	N 57 E
5704.0	8.	3.3	330	N 29 W	95	1.0	54	N 54 E
5706.0	8.	2.1	288	N 71 W	91	1.0	52	N 52 E
5708.0	8.	2.5	185	S 5 W	84	1.0	50	N 50 E
5710.0	8.	11.3	148	S 31 E	86	1.1	60	N 60 E
5712.0	8.	13.9	116	S 63 E	83	1.0	56	N 56 E
5714.0	8.	12.3	100	S 79 E	85	1.0	53	N 53 E
5716.0	8.	6.8	78	N 78 E	82	1.0	50	N 50 E

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
5718.0	8.	6.4	314	N 45 W	78	1.0	52	N 52	E
5720.0	8.	4.9	276	N 83 W	83	1.0	47	N 47	E
5722.0	8.	4.3	211	S 31 W	90	1.1	43	N 43	E
5724.0	8.	1.4	186	S 6 W	92	1.1	40	N 40	E
5726.0	8.	1.8	173	S 6 E	100	1.1	36	N 36	E
5728.0	8.	2.1	178	S 1 E	100	1.1	38	N 38	E
5730.0	8.	2.0	174	S 5 E	100	1.1	42	N 42	E
5732.0	8.	2.8	179	S 0 E	100	1.2	38	N 38	E
5734.0	8.	3.0	172	S 7 E	100	1.3	33	N 33	E
5736.0	8.	3.3	168	S 11 E	100	1.4	29	N 29	E
5738.0	8.	3.7	180	S 0 W	100	1.4	31	N 31	E
5740.0	8.	4.6	189	S 9 W	100	1.4	25	N 25	E
5742.0	8.	5.5	193	S 13 W	100	1.5	23	N 23	E
5744.0	8.	5.7	194	S 14 W	100	1.5	20	N 20	E
5746.0	8.	5.4	193	S 13 W	100	1.6	22	N 22	E
5748.0	8.	4.6	188	S 8 W	100	1.7	18	N 18	E
5750.0	8.	3.7	189	S 9 W	100	1.6	15	N 15	E
5752.0	8.	3.5	190	S 10 W	100	1.5	17	N 17	E
5754.0	8.	3.3	189	S 9 W	100	1.5	16	N 16	E
5756.0	8.	3.1	203	S 23 W	100	1.5	20	N 20	E
5758.0	8.	3.5	218	S 38 W	100	1.4	16	N 16	E
5760.0	8.	4.7	233	S 53 W	100	1.4	20	N 20	E
5762.0	8.	6.5	230	S 50 W	100	1.4	17	N 17	E
5764.0	8.	8.5	211	S 31 W	100	1.5	14	N 14	E
5766.0	8.	12.8	194	S 14 W	97	1.5	11	N 11	E
5768.0	8.	17.3	181	S 1 W	91	1.5	10	N 10	E
5774.0	8.	6.5	170	S 9 E	90	1.7	11	N 11	E
5776.0	8.	2.3	198	S 18 W	98	1.7	6	N 6	E
5778.0	8.	3.0	209	S 29 W	100	1.9	8	N 8	E
5780.0	8.	1.2	19	N 19 E	100	1.7	275	N 84	W
5782.0	8.	3.7	233	S 53 W	100	1.6	63	N 63	E
5784.0	8.	3.8	210	S 30 W	100	1.6	11	N 11	E
5786.0	8.	4.1	208	S 28 W	100	1.6	11	N 11	E
5788.0	8.	4.2	207	S 27 W	100	1.6	20	N 20	E
5790.0	8.	3.9	205	S 25 W	100	1.6	19	N 19	E
5792.0	8.	3.4	205	S 25 W	100	1.5	19	N 19	E
5794.0	8.	2.8	205	S 25 W	100	1.6	16	N 16	E
5796.0	8.	2.2	211	S 31 W	100	1.6	12	N 12	E
5798.0	8.	1.9	231	S 51 W	100	1.6	23	N 23	E
5800.0	8.	1.9	286	N 73 W	100	1.6	23	N 23	E

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		FORMATION DIP				****BOREHOLE*****			
DEPTH	WL	ANG	AZ	BEARING	GRADE	DA	DAZ	BEARING	
5802.0	8.	2.6	305	N 54 W	100	1.5	15	N 15	E
5804.0	8.	2.4	301	N 58 W	100	1.5	20	N 20	E
5806.0	8.	1.6	292	N 67 W	100	1.5	26	N 26	E
5808.0	8.	0.7	223	S 43 W	100	1.5	27	N 27	E
5810.0	8.	1.2	173	S 6 E	100	1.5	23	N 23	E
5812.0	8.	1.5	192	S 12 W	100	1.5	30	N 30	E
5814.0	8.	2.2	201	S 21 W	100	1.6	35	N 35	E
5816.0	8.	2.7	193	S 13 W	100	1.6	30	N 30	E
5818.0	8.	2.8	182	S 2 W	100	1.6	26	N 26	E
5820.0	8.	2.1	174	S 5 E	100	1.6	39	N 39	E
5822.0	8.	1.8	140	S 39 E	100	1.6	36	N 36	E
5824.0	8.	1.0	150	S 29 E	100	1.6	32	N 32	E
5826.0	8.	1.0	243	S 63 W	100	1.8	37	N 37	E
5828.0	8.	2.8	260	S 80 W	100	1.9	39	N 39	E
5830.0	8.	4.3	261	S 81 W	100	1.8	43	N 43	E
5832.0	8.	4.8	261	S 81 W	100	1.9	48	N 48	E
5834.0	8.	4.7	252	S 72 W	100	2.0	45	N 45	E
5836.0	8.	4.1	239	S 59 W	100	2.0	46	N 46	E
5838.0	8.	4.0	223	S 43 W	100	2.2	40	N 40	E
5840.0	8.	4.2	192	S 12 W	100	2.1	36	N 36	E
5842.0	8.	3.8	194	S 14 W	100	2.2	46	N 46	E
5844.0	8.	3.4	200	S 20 W	100	1.9	48	N 48	E
5846.0	8.	3.2	231	S 51 W	100	1.8	39	N 39	E
5848.0	8.	2.7	239	S 59 W	100	1.9	38	N 38	E
5850.0	8.	2.6	253	S 73 W	100	1.8	40	N 40	E
5852.0	8.	2.4	256	S 76 W	100	1.7	35	N 35	E
5854.0	8.	2.8	253	S 73 W	100	1.7	39	N 39	E
5856.0	8.	3.5	225	S 45 W	100	1.9	37	N 37	E
5858.0	8.	3.6	202	S 22 W	100	1.9	32	N 32	E
5860.0	8.	3.5	177	S 2 E	100	1.9	26	N 26	E
5862.0	8.	3.0	160	S 19 E	100	1.9	28	N 28	E
5864.0	8.	1.9	148	S 31 E	100	1.8	35	N 35	E
5866.0	8.	1.2	146	S 33 E	100	1.6	38	N 38	E
5868.0	8.	1.1	159	S 20 E	100	1.6	33	N 33	E
5870.0	8.	1.0	160	S 19 E	100	1.5	38	N 38	E
5872.0	8.	1.3	152	S 27 E	100	1.4	36	N 36	E
5874.0	8.	1.5	129	S 50 E	100	1.2	39	N 39	E
5876.0	8.	1.7	150	S 29 E	84	1.2	53	N 53	E
5878.0	8.	2.5	168	S 11 E	66	1.2	53	N 53	E

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DEPTH	DRIFT ANGLE	DRIFT AZIMUTH	T.V.D.	COORDINATES STATION N-S	STATION E-W	TOTAL N-S	TOTAL E-W
3891	2.1	339.5	3891.0	0.03	-0.01	0.52	-0.19
3915	2.3	349.8	3915.0	0.08	-0.01	1.39	-0.33
3941	2.9	341.0	3941.0	0.05	-0.02	2.40	-0.58
3962	2.4	332.9	3961.9	0.07	-0.04	2.88	-1.02
3982	2.2	335.3	3981.9	0.03	-0.02	3.59	-1.38
4001	2.0	333.9	4000.9	0.03	-0.02	4.21	-1.68
4024	2.4	344.8	4023.9	0.08	-0.02	5.06	-2.03
4049	2.9	340.9	4048.9	0.05	-0.02	6.17	-2.41
4066	3.2	341.9	4065.8	0.05	-0.02	7.01	-2.67
4083	3.6	345.4	4082.8	0.06	-0.02	7.99	-3.02
4105	2.2	332.6	4104.8	0.03	-0.02	8.97	-3.27
4122	2.1	338.1	4121.8	0.03	-0.01	9.55	-3.49
4144	3.5	340.6	4143.8	0.06	-0.02	10.59	-3.90
4168	2.5	333.4	4167.7	0.04	-0.02	11.57	-4.22
4186	2.0	346.2	4185.7	0.03	-0.01	12.24	-4.43
4203	2.5	355.1	4202.7	0.04	-0.00	12.93	-4.51
4227	3.2	343.3	4226.7	0.05	-0.02	14.52	-4.55
4247	2.6	359.6	4246.6	0.14	-0.00	15.92	-4.76
4267	3.7	339.5	4266.6	0.06	-0.02	16.88	-5.05
4288	2.7	336.1	4287.6	0.09	-0.04	17.79	-5.37
4309	2.7	351.4	4308.6	0.05	-0.01	18.79	-5.56
4330	2.8	342.6	4329.6	0.05	-0.01	19.76	-5.81
4351	2.9	343.1	4350.6	0.05	-0.01	20.52	-6.02
4369	3.4	5.3	4368.5	0.06	0.01	21.35	-6.19
4390	2.6	354.0	4389.5	0.05	-0.00	22.54	-6.28
4409	1.0	357.4	4408.5	0.02	-0.00	23.28	-6.31
4428	0.4	358.5	4427.5	0.01	-0.00	23.47	-6.32
4449	0.0	356.5	4448.5	0.00	-0.00	23.51	-6.32
4467	0.3	1.4	4466.5	0.00	0.00	23.57	-6.32
4488	0.6	2.0	4487.5	0.01	0.00	23.73	-6.33
4510	0.8	3.5	4509.5	0.01	0.00	24.00	-6.30
4532	0.8	357.2	4531.5	0.04	-0.00	24.29	-6.30
4549	0.6	2.2	4548.5	0.01	0.00	24.53	-6.30
4565	0.4	351.9	4564.5	0.01	-0.00	24.69	-6.31
4587	0.5	357.0	4586.5	0.03	-0.00	24.85	-6.31
4605	0.2	1.5	4604.5	0.00	0.00	24.95	-6.31
4622	0.3	4.0	4621.5	0.01	0.00	25.02	-6.30
4643	0.6	15.3	4642.5	0.01	0.00	25.20	-6.28
4663	0.9	14.3	4662.5	0.01	0.00	25.36	-6.23
4683	1.4	13.8	4682.5	0.02	0.01	25.82	-6.11

WEXPRO COMPANY
PATTERSON UNIT WELL NO.1

DEPTH	DRIFT ANGLE	DRIFT AZIMUTH	T.V.D.	COORDINATES STATION N-S	STATION E-W	TOTAL N-S	TOTAL E-W
4699	0.4	15.3	4698.5	0.01	0.00	26.13	-6.03
4721	1.5	21.2	4720.5	0.07	0.03	26.48	-5.90
4745	4.0	15.3	4744.5	0.27	0.07	27.43	-5.64
4764	4.0	13.3	4763.4	0.07	0.02	28.72	-5.34
4787	3.4	13.3	4786.4	0.06	0.01	30.17	-4.98
4805	3.3	0.6	4804.4	0.06	0.00	31.19	-4.90
4824	3.4	32.1	4823.4	0.10	0.06	32.28	-4.83
4847	1.3	3.6	4846.4	0.05	0.00	32.59	-5.12
4868	1.8	356.8	4867.4	0.06	-0.00	33.16	-5.12
4884	1.6	359.8	4883.4	0.03	-0.00	33.58	-5.18
4912	1.2	8.7	4911.4	0.02	0.00	34.11	-5.14
4929	1.0	7.2	4928.4	0.02	0.00	34.49	-5.08
4951	1.0	12.6	4950.4	0.02	0.00	34.87	-5.01
4968	1.1	16.6	4967.4	0.02	0.01	35.19	-4.93
4986	1.2	11.2	4985.4	0.02	0.00	35.55	-4.83
5003	1.1	35.3	5002.4	0.05	0.03	35.85	-4.70
5019	1.0	31.9	5018.4	0.02	0.01	36.11	-4.53
5036	1.1	41.8	5035.4	0.01	0.01	36.34	-4.32
5055	1.3	39.8	5054.4	0.02	0.01	36.65	-4.07
5075	1.2	41.8	5074.4	0.08	0.07	36.95	-3.82
5093	1.5	52.1	5092.4	0.03	0.04	37.21	-3.53
5118	0.7	37.4	5117.4	0.01	0.01	37.59	-3.25
5136	0.8	33.0	5135.4	0.01	0.01	37.84	-3.08
5156	1.2	18.8	5155.4	0.02	0.01	38.18	-2.91
5175	1.2	14.9	5174.4	0.02	0.01	38.57	-2.78
5191	1.2	15.9	5190.4	0.02	0.01	38.84	-2.70
5213	1.1	2.7	5212.4	0.02	0.00	39.26	-2.60
5229	1.2	351.4	5228.4	0.02	-0.00	39.58	-2.59
5246	0.9	357.9	5245.4	0.02	-0.00	39.87	-2.58
5265	0.7	354.5	5264.4	0.05	-0.00	40.12	-2.60
5282	0.7	354.0	5281.4	0.01	-0.00	40.34	-2.62
5299	0.8	356.0	5298.4	0.01	-0.00	40.55	-2.61
5317	0.9	18.1	5316.4	0.01	0.00	40.80	-2.56
5339	1.5	353.1	5338.4	0.08	-0.01	41.20	-2.54
5359	0.9	16.2	5358.4	0.03	0.01	41.52	-2.48
5374	1.0	15.3	5373.4	0.02	0.00	41.78	-2.42
5390	1.2	4.5	5389.4	0.02	0.00	42.09	-2.39
5412	1.1	13.9	5411.4	0.02	0.00	42.52	-2.31
5436	1.1	4.6	5435.4	0.02	0.00	43.06	-2.23
5461	1.1	5.2	5460.4	0.04	0.00	43.51	-2.19

WEXPRO COMPANY
PATTERSON UNIT WELL NO.1

DEPTH	DRIFT ANGLE	DRIFT AZIMUTH	T.V.D.	COORDINATES STATION N-S	STATION E-W	TOTAL N-S	TOTAL E-W
5480	1.0	8.9	5479.4	0.02	0.00	43.86	-2.12
5502	0.8	10.2	5501.4	0.01	0.00	43.93	-2.10
5522	0.6	34.3	5521.4	0.02	0.01	44.15	-2.04
5543	0.7	40.1	5542.4	0.03	0.02	44.35	-1.90
5560	0.9	307.7	5559.4	0.01	-0.01	44.50	-1.83
5578	1.1	18.9	5577.4	0.02	0.01	44.79	-1.69
5596	1.3	12.3	5595.4	0.02	0.00	45.17	-1.60
5620	0.9	33.3	5619.4	0.01	0.01	45.55	-1.45
5637	0.6	35.7	5636.4	0.01	0.01	45.72	-1.34
5659	0.6	37.3	5658.4	0.02	0.01	45.92	-1.20
5681	0.8	54.0	5680.4	0.01	0.01	46.07	-0.93
5701	0.9	58.4	5700.4	0.01	0.01	46.25	-0.70
5724	1.1	40.8	5723.4	0.03	0.02	46.50	-0.38
5739	1.4	29.1	5738.4	0.02	0.01	46.76	-0.19
5758	1.4	16.9	5757.4	0.02	0.01	47.24	-0.01
5777	1.8	4.2	5776.4	0.03	0.00	47.74	0.10
5792	1.5	20.0	5791.4	0.03	0.01	48.04	0.20
5809	1.5	23.5	5808.4	0.05	0.02	48.47	0.36
5824	1.6	32.4	5823.4	0.02	0.02	48.82	0.58
5846	1.8	39.3	5845.4	0.05	0.04	49.37	1.09
5864	1.8	35.5	5863.4	0.02	0.02	49.85	1.41

THE FIRST POINT INFORMATION:

16656	65.1	6.2	2.0	1.00	65.09	6.17	2.00

THE LAST POINT INFORMATION:

5876	1.2	53.6	5875.4	0.01	0.02	50.07	1.60

EAST WEST DEVIATION = 1.60 E
NORTH SOUTH DEVIATION = 50.07 N
DIRECTION = N 1.83 E
DISTANCE = 50.10

Patterson Unit Well No. 1

4-25-80: TP 1750, CP 2000, hooked up separator, changed out lines, repaired separator, loaded out drill collars and Dotco tools, put well on flow test.

Date	Tbg	Csg	Sep	Gas		Drip Oil		Water		
Time	psi	psi	psi	Mcf	Choke	Hour	Total	Hour	Total	Remarks
4-25-80	-	-	-	-	-	-	-	-	-	Ismay perfs 5532-5538'
1 pm	1350	1700	310	936	12/16	-	255			
2	1065	1260	405	1227	15/64	13	268			
3	840	1100	360	1104	16/64	12	280			
4	690	900	340	982	10/64	11	291	96	96	gals 6 hr test 68 bbls.
5	620	850	320	920	10/64	10	301	79	175	268 bbls per day.
6	550	750	385	1166	24/64	11	312	70	245	11 bbls per hour.
7	480	650	260	1043	48/64	11	323	105	350	gallons, 8.3 salt water.
4-26-80	1750	1850	-	-	-	-	323	-	350	
10 am	1080	1600	290	859	16/64	8	331	9	359	
11	1050	1260	285	798	13/63	10	341	44	403	
12 am	900	1125	310	951	14/64	10	351	31	434	
1 pm	900	1000	320	1013	16/64	10	361	35	469	
2	700	850	365	1105	18/64	13	374	70	539	
3	620	800	390	1197	20/64	13	387	44	583	
4	600	800	360	921	20/64	13	400	87	670	
5	600	750	390	1289	20/64	13	413	87	757	
6	560	775	330	1043	20/64	13	428	44	801	
7 pm	550	770	340	720	20/64	11	439	44	845	gals - Shut well in.

Patterson Unit Well No. 1

CASING REPORT

Landed 5-1/2" OD, 17#, K-55, 8rd thd, LT&C casing at 5887.00' KBM, set with 510 sacks of 50-50 Pozmix cement treated with 2% gel, 6-1/4 pounds per sack gilsonite and 18% salt, did not bump plug, cemented 2nd stage with 224 sacks 50-50 Pozmix cement treated with 2% calcium chloride, bumped plug with 2800#, collar held OK, cement in place at 8:15 a.m. on March 22, 1980.

4-14-80: Moved in work over rig to location, shut down for night.

4-15-80: Rigged up work over rig, unloaded tubing, drill collars and tools, picked up six 3½" OD drill collars with bit, 2 joints of 2-7/8" OD tubing, SDFN.

4-16-80: Picked up 58 jts 2-7/8" tubing, top of cement at 1679' KB, nippled up BOP's, rigged power sub and drilled 3' cement and DV collar, rigged down power sub and tripped out laying down 3½" drill collars, picked up bit and scraper, ran 25 stands 2-7/8" tubing, mixed 2% KCL water, SDFN.

4-17-80: Picked up tubing, tagged PBD at 5615', displaced hole with 2% KCL water, pulled out, stood tubing in derrick, rigged Dresser, ran CBL-PFC log, 3800' top of cement, SDFN.

4-18-80: Finished picking up 2-7/8" tubing, landed at 5412' KBM, removed BOP's, installed upper wellhead, rigged up Dresser Atlas, perforated 5532-5538' with 2 holes per foot, no pressure after perforating, rigged down Dresser Atlas, rigged up to swab, made 10 swab runs from 4500', recovered 85 barrels of 2% KCL water, no gas, made 8 swab runs to 5380' recovering 20 barrels of KCL water, last 2 swab runs slightly gas cut and a trace of oil, gas and oil is increasing on each run at this time, SI, SDFN.

4-19-80: TP 500, blew down to pit in ½ hour, no fluid, swabbed 5 runs to seating nipple, well began heading and started to flow, flowed for 1½ hours recovering 64 barrels of oil with a trace of water and died, gas flow not enough to gauge, shut well in, pressured to 250 psi in 1 hour, blew down with no fluid recovery, shut down for week end, flowed wide open to tank with no back pressure.

4-21-80: TP 1400, CP 1400, blew well to tank, blew down in 1½ hours, recovered 59 barrels of oil, rigged Dowell to apply acid treatment, pressured test lines to 5000#, loaded hole with produced oil, spotted 750 gallons of 15% MSR acid, shut in annulus and pumped acid into formation, displaced acid with 2% KCL water, acid displaced at 3000# and 1¼ BPM, declined to 2700# at 1¼ BPM, final pump pressure 2600# at 1¼ BPM; ISI 2500#, 5 minutes 600, 10 minutes 350#, rigged up and made 7 swab runs from seating nipple at 5391', recovered 35 barrels of 2% KCL water, well began to flow, flowed remainder of load fluid back in 2½ hours, flowed 50 barrels of oil to tank, new production in 2 hours, SI, SDFN.

4-22-80: TP 1500, drained 111 barrels water from 400 barrel oil tank, flowed well 2 hours to tank on ½" choke recovering 60 barrels oil, turned through separator and packing on water dump leaked, shut in and will have PEC man repair separator, shut down for night.

Date	Tbg	Csg	Sep	Gas		Drip Oil		
Time	psi	psi	psi	Mcf	Choke	Hour	Total	Remarks
4-23-80	-	-	-	-	-	-	-	Ismay perfs 5532' to 5538'.
7 am	1600	1500	-	-	-	-	-	Repair separator.
10 am	1600	1500	-	-	-	-	200	Turned well on, have 200 bbls oil
12 am	850	1200	270	813	16/64			on hand.
1 pm	800	1200	240	721	"	20	220	
2 pm	800	1000	300	905	"	15	235	
3 pm	800	1000	250	752	"	11	246	
4 pm	750	1000	250	752	"	9	255	
5 pm	800	1000	290	874	16/64	11	266	SI, drained 5 barrels water off of tanks, gas reading temperature 65°, RIG RELEASED.

March 17, 1980:
Depth 5568', 0', days 46, pump 900, table 40, wt on bit 4-15 tons, mud wt 10.2, vis 43, sand trace, wl 8.8, fc 2/32, ph 7.5, solids 14, shoe #3, 7½" x 6½" cut 74' from 5496' to 5570' in 14 hours, lost time 14 hours--½ circulate and work over fish; 1½ run spud bars to 5570', torque pipe for shot and overshot released; 4-3/4 trip out with chain; 2¼ rig service and break down overshot; ½ pick up wash pipe and jars, bumper sub; 3 trip in hole; 6 wash over; 1 circulate; 3½ trip out; 1½ stand back wash pipe and pick up overshot and trip in. Trip in with overshot.

March 18, 1980:
Depth 5602', 34', days 47, pump 1200, table 60, wt on bit 15 tons, mud wt 10.3, vis 46, sand trace, wl 7.6, fc 2/32, ph 11.5, solids 15, bit #5, 7-7/8" dtg cut 34' from 5568' to 5602' in 3 hours, lost time 21 hours--2-3/4 trip in hole; ½ work over fish; 3-3/4 trip out; 2½ lay down fish, load Halco; 3½ break down fishing tools and load out same; 1 cut drilling line; 2½ trip in hole with bit; 2½ wash 140' and ream to bottom; 2 trip out. Trip out.

March 19, 1980:
Depth 5720', 118', days 48, pump 1000, table 60, wt on bit 17½ tons, mud wt 10.5, vis 48, sand trace, wl 8, fc 2/32, ph 10.5, solids 16, bit #6, 7-7/8" j33 cut 118' from 5602' to 5720' in 17-3/4 hours, lost time 6¼ hours--2½ trip out, steel line measurement, no correction 5603.50'; 2½ trip in; ½ rig service and check BOP's; 3/4 rig repairs. Drilling.

March 20, 1980:
Depth 5840', 120', days 49, pump 1000, table 60, wt on bit 17½ tons, mud wt 10.3, vis 47, sand trace, wl 9.2, fc 2/32, ph 10.5, solids 16, bit #6, 7-7/8" j33 cut 120' from 5720' to 5840' in 23 hours, lost time 1 hour--½ rig service; ½ rig repairs. Drilling.

March 21, 1980:
Depth 5888', 48', days 50, pump 900, table 60, wt on bit 17½ tons, mud wt 10.6, vis 50, sand trace, wl 8.8, fc 2/32, ph 12, solids 18, bit #6, 7-7/8" j33 cut 48' from 5840' to 5888' in 6½ hours, lost time 17½ hours--4 circulate; 3 trip out, steel line measurement, no correction; 10½ rig up and log with Dresser Atlas. Rig down Dresser Atlas.

March 22, 1980:
Depth 5888', 0', days 51, pump 1000, table 60, mud wt 10.6, vis 50, sand trace, wl 8.8, fc 2/32, ph 10.5, solids 17, bit #6, 7-7/8" j3, lost time 24 hours--½ rig service and check BOP's; 2 finish logging, rig down Dresser; 2-3/4 trip in hole; 4 circulate; 5-3/4 lay down drill pipe and collars; ½ rig to run casing; 4 ran 142 jts 5½", 17#, K-55, 8rd thd, LT&C casing, casing landed at 5887' KB, DV collar at 1682'; ½ rig to circulate; 1½ circulate 175 barrels mud with rig pump; ½ cement with 510 sacks 50-50 Pozmix treated with 2% gel, 6.25# per sack Gilsonite, 18% salt, full returns, did not bump plug, floats held, cement in place at 4:30 p.m.; 1¼ circulate second stage. Circulate to cement second stage.

March 23, 1980:
Depth 5888', 0', days 52, lost time 18 hours--1-3/4 circulate; ½ cement second stage with 284 sacks regular B cement treated with 2% calcium chloride, bumped plugs with 2800#, held good, cement in place at 8:15 a.m. March 22, 1980; 4¼ nipple down BOP's; 4½ set 82,000# on slips, landed casing, installed spool, tested seals to 2000#, held good; 7 picked up MFSCO equipment and cleaned pits.

RIG RELEASED AT 11:55 p.m. on MARCH 22, 1980.

Patterson Unit Well No. 1

Drill Stem Test No. 1
Depth 5568', packers 5501' and 5507'
IO 3/4 hr, tool opened strong for 1/4 hr, slid down hole 22', made connection, opened ½ hr blow weak after making connection then increased to strong, no gas to surface, tried to close tool, could not rotate, reverse circulated out some gas.

March 11, 1980:
Depth 5568', 0', days 40, pump 800, mud wt 10.3, vis 44, sand trace, wl 8.8, fc 2/32, ph 12, solids 14, bit #5, 7-7/8" dtg clean out, lost time 24 hours--4½ jar on test tools; ½ rig service; 2 back off safety joint; 2½ trip out; 1½ lay down test tools; 3-3/4 trip in with bit #5; 1½ cut drilling line; 5½ circulate and condition mud; 2¼ short trip, no problems with hole, top of fish at 5496', packers at 5500', 55' anchor and total of fish 63'. Circulate and condition hole on top of fish.

March 12, 1980:
Depth 5568', 0', days 41, pump 800, mud wt 10.3, vis 44, sand trace, wl 8.8, fc 2/32, ph 12, solids 14, bit #5, 7-7/8" dtg, lost time 24 hours--2-3/4 circulate; 2½ trip out; 4-3/4 pick up overshot, jars, bumper sub and jar accelerator, trip in hole; 3/4 circulate and work over fish; 7¼ jar on fish; ½ release overshot; 3½ trip out, lay down tools; 2 pick up 2 jts 7-3/8" x 6-5/8" wash over pipe, shoe dressed 6½" ID with 7½" OD, 68' total, ran jars, bumper sub and wash over pipe. Trip in with wash pipe.

March 13, 1980:
Depth 5568', 0', days 42, pump 500, table 80, wt on bit 4-10 tons, mud wt 10.2, vis 43, sand trace, wl 7.2, fc 2/32, ph 11.5, solids 14, WO shoe #1 7-5/8" x 6½" cut 13' from 5496' to 5509' in 11¼ hours, WO shoe #2 7-5/8" x 6½", lost time 24 hours--3-3/4 pick up fishing tools and finish trip in hole slowly; 11¼ wash over; 1¼ trip out with wash over pipe, tight hole at 2530', worked pipe through and past tight hole at 2417'; 2 trip out; 1¼ wait on key seat wiper. Wait on 7-3/8" OD key seat wiper.

March 14, 1980:
Depth 5568', 0', days 43, pump 1500, table 40, wt on bit 1 ton, mud wt 10.2, vis 44, sand trace, wl 11.4, fc 2/32, ph 11.5, solids 14, bit #5, 7-7/8" dtg ream through key seat, shoe #2 7½" x 6-3/8" trip in, lost time 24 hours--7½ wait on 3-point reamer and key seat wiper; 4 trip in with 3-point reamer, 7 stands above drill collars, hit bridge at 2763' with bit, cleaned out and finished trip in; 7½ reamed through key seat with 3-point reamer from 2404-2567'; 2¼ trip out; 1-3/4 pick up wash pipe (63' with 7-3/8" key seat wiper); 1 trip in. Trip in with wash pipe.

March 15, 1980:
Depth 5568', 0', days 44, pump 500, table 40, wt on bit 4-10 tons, mud wt 10.3, vis 43, sand trace, wl 6.8, fc 2/32, ph 12, solids 16, shoe #2, 7½" x 6-3/8" cut 45' from 5496' to 5541' in 10 hours, lost time 24 hours--3½ trip in with wash pipe; ½ wash out bridge at 3500'; 10 wash over; 4 trip out and lay down tools; 3 pick up overshot dressed with 5" grapple, trip in hole; ½ work over fish; 1 jarring, jarred off fish; 1½ trip out. Trip out with overshot.

March 16, 1980:
Depth 5568', 0', days 45, mud wt 10.2, vis 42, sand trace, wl 6.4, fc 2/32, ph 12, solids 14, lost time 24 hours--3/4 rig repair and check BOP's; 2 trip out, bumper sub had parted in mandrel leaving overshot in hole on top of fish at 5492'; 6¼ wait on tools; 4-3/4 pick up Baasch Ross overshot with 5" grapple, jars and bumper sub, trip in hole; ¼ work over fish, grapple would not hold on fish; 1¼ circulate; 2-3/4 trip out; 1½ wait on welder; 1 modify skirt on overshot with welder; 2-3/4 trip in with 7" OD Bowen overshot with extension; 1¼ circulate over fish. Pour rope socket on 1¼" tools.

Patterson Unit Well No. 1

February 18, 1980:
Depth 5531', 101', days 18, pump 1000, table 52, wt on bit 12½ tons, mud wt 10.2, vis 40, sand trace, wl 9.8, fc 2/32, ph 12, solids 15, bit #4, 7-7/8" f3 cut 78' from 5430' to 5508' in 9¼ hours, core head #1, 7-7/8" mc20 cut 23' from 5508' to 5531' in 3-3/4 hours, survey 5508' 1°, drilling and coring time 13 hours, lost time 11 hours--½ rig service and survey; 1-3/4 circulate samples; 8-3/4 trip, lay down shock sub, pick up core barrel and trip in, start core #1, steel line measurement, no correction. Cutting core No. 1

February 19, 1980:
Depth 5568', 37', days 19, pump 1000, table 52, wt on bit 12 tons, mud wt 10.3, vis 43, wl 9.4, fc 2/32, ph 12, solids 15, core head #1, 7-7/8" mc20 cut 37' from 5531' to 5568' in 4 hours, lost time 20 hours---3 trip out; 3 lay down core, recovered 58½'; 1½ lay down junk basket and run drill collars; 1 cut drilling line; 1½ trip in hole; 10 circulate and wait on tester. Circulate and wait on tester.

February 20, 1980:
Depth 5568', 0', days 20, pump 1000, bit #4 RR, 7-7/8" f3, lost time 24 hours--10 circulate; 3 trip out; 11 get crews and equipment to shut down and drain rig.
RIG DRAINED, OPERATIONS SUSPENDED DUE TO WEATHER CONDITIONS.

March 6, 1980:
Depth 5568', 0', days 35, pump 1100, mud wt 10.3, vis 41, sand trace, wl 10.8, fc 2/32, ph 12, solids 15, lost time 22 hours--5 rig up mud, steam and water lines; 3-3/4 trip in the hole, some bridging from 1100' to 2600'; ½ rig repairs; 5½ circulate, condition mud and build volume; 2 trip out, stuck pipe at 2517'; 4¼ work stuck pipe. Work stuck pipe.

March 7, 1980:
Depth 5568', 0', days 36, pump 1100, mud wt 10.2, vis 41, sand trace, wl 9.6, fc 2/32, ph 11, solids 12, lost time 24 hours--2½ work pipe, wait on nitrogen; 3 rig up Nowsco, inject 18,000 Scf nitrogen down tubing, unloaded hole from 2517', pipe did not come free; 2½ work pipe, no movement; 1½ pump mud in hole from 2517'; 14½ work stuck pipe and wait on fishing tools and jars and free point truck. GO International is coming out of Grand Junction, Colo; truck is at Montezuma Creek crossing and water is too high to ford creek. Work stuck pipe at 2517', wait on GO International.

March 8, 1980:
Depth 5568', 0', days 37, pump 1100, table 70, mud wt 10.2, vis 41, sand trace, wl 2.4, fc 2/32, ph 7.5, solids 15, bit #5, 7-7/8" dtg wash in, lost time 24 hours--4-3/4 work stuck pipe; 3/4 rig service, check BOP's; 4½ rig up GO and free point pipe, stuck at 2500', backed off at 2448', left 2 collrs, shock tool, and bit; 3 trip out; 6-3/4 pick up fishing tools, trip in; 1¼ circulate on fish, screwed into same and jarred loose bumping down hole; 2-3/4 wash and drill up through bridges. Trip in with bit #5.

March 9, 1980:
Depth 5568', 0', days 38, pump 900, table 60, mud wt 10.2, vis 43, sand trace, wl 9, fc 2/32, ph 10, solids 14, bit #4, 7-7/8" f3, lost time 24 hours--1½ trip in hole through tight spot at 2517'; 9 wash and ream from 2517' to 2650'; 1 rig service and check BOP's; 6 circulate, condition hole and mud; 6½ two short trips above 2500', last trip hole has cleaned. Circulate, condition hole for DST No. 1

March 10, 1980:
Depth 5568', 0', days 39, mud wt 10.2, vis 38, sand trace, wl 9, fc 2/32, ph 10, solids 14, lost time 24 hours--4 circulate and condition hole; 7 trip; 3 pick up test tools; 1½ DST No. 1; 1½ drop bar and reverse circulate; 7 try to pull packer loose and jar on stuck test tools. Jar and work stuck DST tool.

MESA PETROLEUM CO.

OPERATOR: Mesa Petroleum Co. WELL NAME: Kirsch #1-31

PROSPECT Russian LOCATION 600' FEL & 820' FNL Sec. 31-

CONTRACTOR Brinkerhoff-Signal T142N-R96W, Dunn Co., No. Dakota

PTD 13,150' Red River ELEV:

"T I G H T H O L E"

3/ 8/80 PO: Prep. to acidize perforations - 12,904-12; 12,920-24; 12,026-32.

Went in the hole with tubing and Baker Pkr., tail pipe @ 12,923', SION. No indication of gas or less after perforating.

3/ 9/80 PO: Acidize Perforations

Acidize 2500 gals. 15% MCA, displace w/water. 1000 ft. 3 bbls. of N_2. 2 BPM @ 2700 psi. Set packer. 2 BPM max. 5600 psi. ISIP 5400, slight ball action. Recovered 90 bbls., spent acid.

3/10/80 PO: Swab, prep. to set bridge plug and test the Interlake interval (12,440-12,458').

SITP 1400 psi (15 hrs), FL 4500' KB. Swabbed 8 hrs and recovered 100 bbls. of water (17 runs). Swabbed to 11,400' KB. Trace of oil on first run. Gas with each run TSTM. No further show of oil while swabbing.

3/11/80 PO: Prep. to set cast iron bridge plug

SI 18 hrs., 1250 psi SITP, FL 5,500'. Swabbed 14 hrs. and recovered 90 bbls fluid of which 10 bbls. was oil. Last 4 hrs. of swabbing recovered 3 bbls/hr, 90% water. Fair blow of gas, with heavies, during swabbing. SION

3/12/80 PO: Prep. to perforate Interlake @ 12,440-58'

SITP 800 psi, FL 6,500' KB, Pulled one swab, recovered 7 bbls. fluid of which 90% was water. POOH, set cast iron bridge plug @ 12,890'. Pressure tested to 2000 psi-okay. Placed 3 sxs. cmt. on top of bridge plug. PBTD @ 12,865'.

February 8, 1980:
Depth 3132', 778', days 8, pump 1150, table 70, wt on bit 15 tons, mud wt 8.7, vis 35, sand trace, wl 13, fc 2/32, ph 9.5, solids 2, bit #2, 7-7/8" fp52 cut 778' from 2354' to 3132' in 23¼ hours, survey 2330' 3/4°, lost time 3/4 hour--½ survey; ¼ rig service. Drilling.

February 9, 1980:
Depth 3627', 495', days 9, pump 1200, table 70, wt on bit 15 tons, mud wt 9.4, vis 32, sand ½%, wl 22, fc 3/32, ph 10, solids 6 bit #1 RR, 7-7/8" f2 cut 73' from 3132' to 3205' in 2½ hours, bit #2 RR, 7-7/8" f2 cut 422' from 3205' to 3627' in 17½ hours, survey 3210' 2°, drilling time 20 hours, lost time 4 hours--3¼ trip; 3/4 circulate, kill water flow at 3167'. Drilling.

February 10, 1980:
Depth 4045', 418', days 10, pump 1200, table 70, wt on bit 15 tons, mud wt 9.5, vis 36, sand 2%, wl 36, fc 3/32, ph 9, solids 6, bit #2, 7-7/8" f2 cut 418' from 3627' to 4045' in 23¼ hours, survey 3634' 1½°, lost time 3/4 hour--½ circulate and run survey; ¼ rig service. Drlg.

February 11, 1980:
Depth 4420', 375', days 11, pump 1200, table 20, wt on bit 12 tons, mud wt 9.4, vis 32, sand trace, wl 24, fc 2/32, ph 10.5, solids 18, bit #2, 7-7/8" f2 cut 375' from 4045' to 4420' in 23½ hours, lost time ½ hour--½ rig service and check BOP's. Drilling.

February 12, 1980:
Depth 4635', 215', days 12, pump 1200, table 70, wt on bit 15 tons, mud wt 9.7, vis 34, sand trace, wl 14, fc 2/32, ph 8.5, solids 12, bit #2 RR, 7-7/8" f2 cut 38' from 4420' to 4458' in 4 hours, bit #3, 7-7/8" f3 cut 177' from 4458' to 4635' in 12-3/4 hours, survey 4458' 1½°, drilling time 16-3/4 hours, lost time 7¼ hours--5¼ bit trip; 1 rig service and check BOP's; 1 check for hole in pipe. Trip for hole in pipe.

February 13, 1980:
Depth 4800', 165', days 13, pump 1000, table 70, wt on bit 15 tons, mud wt 9.8, vis 36, sand ¼%, wl 18.4, fc 2/32, ph 10, solids 9, bit #3, 7-7/8" f3 cut 165' from 4635' to 4800' in 16½ hours, lost time 7½ hours--7 trip for hole in drill pipe; ½ rig service and check BOP's. Had 2 holes, 1 hole 19 jts below surface; 2nd hole above collars on first joint. Drilling.

February 14, 1980:
Depth 4942', 142', days 14, pump 1300, table 70, wt on bit 15 tons, mud wt 10.2, vis 35, sand ¼%, wl 8.4, fc 2/32, ph 11, solids 14, bit #3, 7-7/8" f3 cut 142' from 4800' to 4942' in 14-3/4 hours, lost time 9¼ hours--9¼ trip out for hole in drill pipe, lay down 2 joints cleaned out junk basket. Drilling.

February 15, 1980:
Depth 5149', 207', days 15, pump 1200, table 70, wt on bit 15 tons, mud wt 10.2, vis 42, sand trace, wl 18, fc 2/32, ph 11, solids 7, bit #3, 7-7/8" f3 cut 207' from 4942' to 5149' in 23½ hours, lost time ½ hour--½ rig service and check BOP's. Drilling.

February 16, 1980:
Depth 5314', 165', days 16, pump 1200, table 70, wt on bit 15 tons, mud wt 10.2, vis 46, sand trace, wl 7.8, fc 2/32, ph 11, solids 8, bit #3, 7-7/8" f3 cut 165' from 5149' to 5314' in 23¼ hours, lost time 3/4 hour--3/4 rig service and check BOP's. Drilling.

February 17, 1980:
Depth 5430', 116', days 17, pump 1200, table 70, wt on bit 15 tons, mud wt 10.3, vis 41, wl 9.4, fc 2/32, ph 12, solids 14, bit #3, 7-7/8" f3 cut 97' from 5314' to 5411' in 12-3/4 hours, bit #4, 7-7/8" f3 cut 19' from 5411' to 5430' in 2½ hours, drilling time 15¼ hours, lost time 8-3/4 hours--¼ rig service; 8½ trip change shock tools, work BOP. Drilling.

Patterson Unit Well No. 1
API #: 43-037-30510 Wexpro Company, Operator
Lease No.: U-11668
Projected depth: 781' FNL, 2116' FEL
5860' Paradox (WC) NE NW 5-38S-25E., SLB&M
San Juan County, Utah
Ground elevation 5305' KB 5318.70'

Drilling contractor: All Western

SPUDDED NOVEMBER 29, 1979 at 3:00 p.m.

November 30, 1979:
Depth 325', running casing. Landed 10' of 16" conductor.

December 1, 1979:
Depth 325', 0', landed 9-5/8", 36#, K-55, casing at 321.32', set with 200 sacks of regular G cement, cement in place at 9:30 p.m. on December 1, 1979.

December 2, 1979: Rig released, moving out.

CASING REPORT

Landed 9-5/8", 36#, K-55, 8rd thd, ST&C casing at 334.45', set with 325 sacks of regular G cement treated with 3% calcium chloride, returned 2 barrels slurry to surface, cement in place at 9:30 p.m. on December 1, 1979.

February 3, 1980:
Depth 941', 605', days 3, pump 1500, table 65, wt on bit 10 tons, water, bit #1, 7-7/8" fp52 cut 605' from 336' to 941' in 14 hours, survey 800' 3/4°, lost time 10 hours--¼ survey; 4 ran out of water; 2 lost circulation; 2½ work stuck pipe at 910', lost approximately 600 barrels of fluid from 870' to 910'. Work stuck pipe.

February 4, 1980:
Depth 941', 0', days 4, pump 800, mud wt 8.5, vis 39, bit #1, 7-7/8" fp52, lost time 24 hours--15-3/4 work stuck pipe and circulate; 8¼ picked up surface jars, jarred and drove on fish, 100,000#, water truck will pick up oil in Montecello to spot on fish. Stuck pipe, jarring on fish.

February 5, 1980:
Depth 941', 0', days 5, pump 800, table 50, mud wt 8.6, vis 52, sand trace, wl 6.8, fc 1/32, ph 10.7, solids 2, bit #1, 7-7/8" fp52, lost time 24 hours--6¼ jar on fish with surface jars; 4½ spotted 30 barrels of #2 diesel outside pipe, 15 barrels in pipe, moved oil each ½ hour; 12-3/4 lay down jars, rig up McCullough, ran free point, no movement below 500', blew hole dry using nitrogen, pipe came free. Circulate and conditon mud.

February 6, 1980:
Depth 1659', 718', days 6, pump 1400, table 70, wt on bit 20 tons, mud wt 8.6, vis 35, sand trace, wl 6, fc 1/32, ph 10, solids 7, bit #1, 7-7/8" f2 cut 718' from 941' to 1659' in 11½ hours, survey 1467' 3/4°, lost time 12½ hours--2-3/4 blow hole using Nowsco and nitrogen, worked stuck pipe, pipe came free; 2-3/4 circulate; ½ trip; ¼ survey; ¼ rig service; 1 check all surface equipment for leaks; 5 trip, broke all drill collars, checking for leaks. Trip for bit, may be washed out.

February 7, 1980:
Depth 2354', 695', days 7, pump 1100, table 70, wt on bit 17½ tons, mud wt 8.8, vis 34, bit #1, 7-7/8" fp52 cut 695' from 1659' to 2354' in 21½ hours, lost time 2½ hours--1¼ trip; 1¼ circulate and condition mud. Drilling.

Patterson Unit Well No. 3

After original completion of July 21, 1983

Tubing Report

	Net	Gross
1 ERC-TC-1A ERC tubing hanger	.70	.70
179 jts. 2-7/8" OD, 6.5#, J-55, 8 rd thrd, EUE tbg	5,504.56	5,546.51
1 2-7/8" OD seating nipple with coupling	1.10	1.33
1 Baker tubing anchor-catcher	2.75	2.98
1 jt. 2-7/8" OD, 6.5#, J-55, 8 rd thrd, EUE tbg	30.31	30.54
1 2-7/8" collar	.44	.44
	5,539.86	5,582.50

The above tubing is landed at 5552.12 feet KBM or 12.26 feet below KB in an ERC 10-inch 3000 psi by 6-inch 3000 psi tubing spool. Tubing is landed in approximately 5000 pounds tension.

Rod Report

1 - 1¼" X 22' polished rod
1 - 7/8" X 4' pony rod
72 - 7/8" sucker rods
81 - 3/4" sucker rods
63 - 5/8" sucker rods
3 - 1½" K-bars
1 - 2½" X 2" X 16' Harbison-Fischer rod pump

Patterson Unit Well No. 3

Time & Date	Tbg psi	Csg psi	Sep psi	Gas Mcf	Oil	Cum	Wtr	Cum	Remarks
11:00am	250	1047	238	174	7	1559	2	462	Choke 28/64"
12:00N	245	1057	232	170	5	1564	4	466	
1:00pm	270	1060	255	178	0	1564	0	466	
2:00	318	1044	300	220	15	1579	3	469	
3:00	254	1047	242	184	6	1585	2	471	
4:00	244	1059	229	166	3	1588	9	480	
5:00	250	1063	239	181	9	1597	0	480	
6:00	310	1052	300	226	11	1608	0	480	
7:00	276	1048	249	189	7	1615	2	482	
8:00	242	1058	240	141	7	1622	2	484	
9:00	251	1060	240	148	5	1627	3	487	
10:00	273	1053	250	151	8	1635	1	488	
11:00	277	1044	265	163	5	1640	3	491	
12:00M	248	1052	235	135	9	1649	2	493	
7-21-83									
1:00am	249	1057	237	141	6	1655	3	496	
2:00	277	1054	260	157	9	1664	2	498	
3:00	268	1047	255	151	7	1671	2	500	
4:00	247	1053	235	163	8	1679	4	504	
5:00	252	1056	240	138	7	1686	1	505	
6:00	260	1052	245	148	7	1693	2	507	
7:00	267	1048	255	157	6	1699	4	511	
8:00	250	1053	239	171	8	1707	1	512	
9:00	245	1059	232	166	8	1715	0	512	
10:00	276	1059	260	190	8	1723	2	514	
11:00	269	1054	254	185	7	1730	2	516	
12:00N	288	1069	275	200	5	1735	3	519	
1:00pm	181	1082	143	131	6	1741	2	521	

Pressure bomb set at 5536' KBM at 12:30 PM, shut well in at 1:00 PM.

Tubing Report

	Net	Gross
1 ERC-TC-1A ERC tubing hanger	.70	.70
179 jts. 2-7/8" OD, 6.5#, J-55, 8 rd thrd, EUE tbg	5,504.56	5,546.51
1 2-7/8" OD seating nipple with coupling	1.10	1.33
1 Baker tubing anchor-catcher	2.75	2.98
1 jt. 2-7/8" OD, 6.5#, J-55, 8 rd thrd, EUE tbg	30.31	30.54
1 2-7/8" collar	.44	.44
	5,539.86	5,582.50

The above tubing is landed at 5552.12 feet KBM or 12.26 feet below KB in an ERC 10-inch 3000 psi by 6-inch 3000 psi tubing spool. Tubing is landed in approximately 5000 pounds tension.

Annabelle

7-13-83: Moved in and rigged up contract workover rig, picked up 4-3/4" bit and casing scraper and ran in hole on 192 joints 2-7/8" tubing, checked plug back depth @ 5858.97' KBM, SDFN. HL

7-14-83: Circulate hole with 150 barrels brine water, trip out of hole standing back 2-7/8" tubing and laying down bit and casing scraper, rig up OWP and run cement bond log, pressure test casing and blind rams to 1500 psi for 5 minutes, held okay, perforate the Ismay formation from 5658' to 5674' KBM with 1 shot per foot, no pressure after perforating, SDFWE. HL

7-18-83: Picked up Baker retrievable packer, ran on 2-7/8" O.D. tubing, set @ 5619', rigged up Dowell, acidized with 750 gallons 28% Hcl with 700 SCF N_2 per barrel acid, displaced with 34 barrels formation water with 700 SCF N_2 per barrel, average pressure 3900, rate 2 BPM, ISIP 3900, 15 mins 2700, flowed well back, dead in 45 minutes, made 6 swab runs, swabbed well down to 5600', wait 1 hour, made swab run, no fluid, recovered a total of 40 barrels water and spent acid water, SDFN.

7-19-83: TP 450, blew tubing down in 5 minutes, swabbed 55 barrels oil cut water to pit (5 to 10% oil), swabbed 90 barrels (65 water and 25 oil) to tank in 12 swab runs, SDFN.

7-20-83: TP 550, blew tubing down, recovered 5 barrels fluid, made 19 swab runs from packer, recovered a total for the day of 105 barrels water and 35 barrels oil (cumulative 170 barrels water & 58 barrels oil), well making fair blow of gas after swab runs, SDFN. MRS

7-21-83: TP 550, blew tubing down in 10 minutes, released packer, tripped out of hole, ran one joint 2-7/8" OD, 6.5#, J-55, EUE tubing, one Baker tubing anchor, one pump seating nipple and 184 joints 2-7/8" OD, 6.5#, J-55, EUE tubing, landed tubing at 5664.78 feet KBM or 12.26 feet below KB in an ERC 7-1/16" 3000 psi tubing spool, tubing landed in 12,000 pounds tension. SDFN MRS

7-22-83: Tubing dead, CP 75, ran rods as follows:

1 - 1¼" X 22' polish rod
1 - 7/8" X 4' pony rod
1 - 7/8" X 8' pony rod
70 - 7/8" rods
84 - 3/4" rods
65 - 5/8" rods
3 - 1½"X 3/4" K bars (weight section)
1 - NSCo. rod pump #1, 2½" X 1-3/4" X 16 X 18 X 20'

Space out pump and clamp off polish rod. Released rig.

Tubing Report

	Net	Gross
1 - ERC ER-TC-1A tubing hanger	.70	.70
184 jts 2-7/8" OD, 6.5#, J-55, 8 rd thrd EUE tbg	5,614.91	5,648.03
1 - seating nipple with coupling	1.07	1.25
1 - Baker B-3 tubing anchor	2.75	2.93
1 jt 2-7/8" OD, 6.5#, J-55, 8 rd thrd, EUE tbg	31.28	31.46
Total	5,650.71	5,684.37

Tubing landed 12,000# in tension @ 5664.77' KBM or 12.26' below KB in ERC ER-TCM 10" X 6" X 3000# tubing spool. Seating nipple @ 5630.11'KBM.

Annabelle

Patterson Unit Well No. 3

Time & Date	Tbg psi	Csg psi	Sep psi	Gas Mcf	Oil	Cum	Wtr	Cum	Remarks
11:00am	250	1047	238	174	7	1559	2	462	Choke 28/64"
12:00N	245	1057	232	170	5	1564	4	466	
1:00pm	270	1060	255	178	0	1564	0	466	
2:00	318	1044	300	220	15	1579	3	469	
3:00	254	1047	242	184	6	1585	2	471	
4:00	244	1059	229	166	3	1588	9	480	
5:00	250	1063	239	181	9	1597	0	480	
6:00	310	1052	300	226	11	1608	0	480	
7:00	276	1048	249	189	7	1615	2	482	
8:00	242	1058	240	141	7	1622	2	484	
9:00	251	1060	240	148	5	1627	3	487	
10:00	273	1053	250	151	8	1635	1	488	
11:00	277	1044	265	163	5	1640	3	491	
12:00M	248	1052	235	135	9	1649	2	493	
7-21-83									
1:00am	249	1057	237	141	6	1655	3	496	
2:00	277	1054	260	157	9	1664	2	498	
3:00	268	1047	255	151	7	1671	2	500	
4:00	247	1053	235	163	8	1679	4	504	
5:00	252	1056	240	138	7	1686	1	505	
6:00	260	1052	245	148	7	1693	2	507	
7:00	267	1048	255	157	6	1699	4	511	
8:00	250	1053	239	171	8	1707	1	512	
9:00	245	1059	232	166	8	1715	0	512	
10:00	276	1059	260	190	8	1723	2	514	
11:00	269	1054	254	185	7	1730	2	516	
12:00N	288	1069	275	200	5	1735	3	519	
1:00pm	181	1082	143	131	6	1741	2	521	

Pressure bomb set at 5536' KBM at 12:30 PM, shut well in at 1:00 PM.

June 25, 1983:
Depth 5730', 82', days 14, pump 1200, table 64, wt on bit 21 tons, mud wt 10.2, vis 36, sand ¼%, wl 8, fc 2/32, ph 11, solids 18, bit #6, 8-3/4" f3 cut 836' from 4894' to 5730' in 88 hours, drilling time 8 hours, lost time 16 hours--16 DST #1. Drilling. HRL

Drill Stem Test No. 1
TD 5648', Packers 5586' and 5592'
Ismay, 45 unit gas increase 4492'-5648'

IO 30 mins, ISI 120 mins, FO 240 mins, FSI 360 mins, opened weak, gas to surface in 30 minutes, not enough to gauge, reopened, gas to surface immediately 34 MCFPD, 60 mins 34 MCFPD, 90 mins 37 MCFPD, 120 mins 31 MCFPD, 150 mins 31 MCFP, 180 mins 28 MCFPD, 210 mins 28 MCFPD, 240 mins 28 MCFPD, IHP 3078, IOFP's 200-284, ISIP 2350, FOFP's 284-524, FSIP 2340, FHP 3187, BHT 127°F, recovered 1200' gas and oil cut mud, 1500 cc, psig 1500, 10.2 ppg, Rw 1.0 @ 65°, 7000 ppm.

June 26, 1983:
Depth 5930', 200', days 15, pump 1200, table 64, wt on bit 21 tons, mud wt 10.2, vis 36, sand ¼%, wl 10.8, fc 2/32, ph 12.2, solid 13, bit #6, 8-3/4" f3 cut 1036' from 4894' to 5930' in 111-3/4 hours, drilling time 23-3/4 hours, lost time 1/4 hour--1/4 rig service and check BOP's. Drilling. HRL

June 27, 1983:
Depth 5964', 34', days 16, pump 1200, table 64, wt on bit 20 tons, mud wt 10.2, vis 38, sand ¼%, wl 10.8, fc 2/32, solids 13, bit #6, 8-3/4" f3 cut 1070' from 4894' to 5964' in 114¼ hours, survey ½° at 5964', drilling time 2½ hours, lost time 21½ hours--6¼ trip; 2½ circulate; 3½ circulate and wait on loggers; 5-3/4 run E logs; 3½ laid down drill collars and drill pipe. Laying down drill pipe. HRL

June 28, 1983:
Depth 5964', 0', days 17, drilling time 0 hours, lost time 13 hours--1 laid down drill pipe; 5 rigged up and ran 5½" casing; 3/4 circulated with rig pump; 1-1/2 cemented; 4-3/4 pulled BOP's, set casing slip, cut off casing, nippled up tubing spool. HRL

RIG RELEASED JUNE 27, 1983 at 7:00 P.M.

CASING REPORT

Ran 5-1/2" O.D., 17#, K-55, 8 rd thrd, LT&C casing and landed @ 5972.93 feet KBM or 14.06 feet below KB, casing was circulated 1/2 hour with rig pump, a 10 barrel fresh water pre-flush was pumped ahead of cementing, cemented with 1200 sacks of 50-50 Pozmix B cement, cement was displaced with 137 barrels of fresh water, had good returns throughout the job and bumped plug to 2700 psi, or 700 psi over pumping pressure, float equipment held okay, cement in place @ 2:15 P.M., 6-27-83.

June 25, 1983:
Depth 5730', 82', days 14, pump 1200, table 64, wt on bit 21 tons, mud wt 10.2, vis 36, sand ¼%, wl 8, fc 2/32, ph 11, solids 18, bit #6, 8-3/4" f3 cut 836' from 4894' to 5730' in 88 hours, drilling time 8 hours, lost time 16 hours--16 DST #1. Drilling. HRL

Drill Stem Test No. 1
TD 5648', Packers 5586' and 5592'
Ismay, 45 unit gas increase 4492'-5648'
IO 30 mins, ISI 120 mins, FO 240 mins, FSI 360 mins, opened weak, gas to surface in 30 minutes, not enough to gauge, reopened, gas to surface immediately 34 MCFPD, 60 mins 34 MCFPD, 90 mins 37 MCFPD, 120 mins 31 MCFPD, 150 mins 31 MCFP, 180 mins 28 MCFPD, 210 mins 28 MCFPD, 240 mins 28 MCFPD, IHP 3078, IOFP's 200-284, ISIP 2350, FOFP's 284-524, FSIP 2340, FHP 3187, BHT 127°F, recovered 1200' gas and oil cut mud, 1500 cc, psig 1500, 10.2 ppg, Rw 1.0 @ 65°, 7000 ppm.

June 26, 1983:
Depth 5930', 200', days 15, pump 1200, table 64, wt on bit 21 tons, mud wt 10.2, vis 36, sand ¼%, wl 10.8, fc 2/32, ph 12.2, solid 13, bit #6, 8-3/4" f3 cut 1036' from 4894' to 5930' in 111-3/4 hours, drilling time 23-3/4 hours, lost time 1/4 hour--1/4 rig service and check BOP's. Drilling. HRL

June 27, 1983:
Depth 5964', 34', days 16, pump 1200, table 64, wt on bit 20 tons, mud wt 10.2, vis 38, sand ¼%, wl 10.8, fc 2/32, solids 13, bit #6, 8-3/4" f3 cut 1070' from 4894' to 5964' in 114¼ hours, survey ½° at 5964', drilling time 2½ hours, lost time 21½ hours--6¼ trip; 2½ circulate; 3½ circulate and wait on loggers; 5-3/4 run E logs; 3½ laid down drill collars and drill pipe. Laying down drill pipe. HRL

June 28, 1983:
Depth 5964', 0', days 17, drilling time 0 hours, lost time 13 hours--1 laid down drill pipe; 5 rigged up and ran 5½" casing; 3/4 circulated with rig pump; 1-1/2 cemented; 4-3/4 pulled BOP's, set casing slip, cut off casing, nippled up tubing spool.

RIG RELEASED JUNE 27, 1983 at 7:00 P.M.

June 17, 1983:
Depth 3780', 880', days 6, pump 1100, table 70, wt on bit 19 tons, water, bit #3, 8-3/4" f2 cut 1930' from 1850' to 3780' in 42½ hours, surveys 3/4° at 3003', 3/4° at 3621', drilling time 22-3/4 hours, lost time 1-1/4 hour--1/4 rig service; 1/2 surveys; 1/2 repair air compressor. Drilling. HRL

June 18, 1983:
Depth 4120', 340', days 7, pump 1100, table 72, wt on bit 20 tons, mud wt 10.1, vis 35, sand 1/4%, wl 12.3, fc 2/32, ph 9, bit #3, 8-3/4" f2 cut 1955' from 1850' to 3805' in 43 hours, bit #4, 8-3/4 j22 cut 315' from 3805' to 4120' in 18 hours, survey 1° at 3805', drilling time 18½ hours, lost time 5½ hours--1/4 rig service; 5 trip, wash and ream 150'; 1/4 adjust brake. Drilling. HRL

June 19, 1983:
Depth 4540', 420', days 8, pump 1200, table 65, wt on bit 21 tons, mud wt 10.1, vis 33, sand ¼%, wl 19.2, fc 2 32, ph 11.5, bit #4, 8-3/4" j22 cut 735' from 3805' to 4540' in 40¼ hours, survey 1° at 4453', drilling time 22¼ hours, lost time 1-3/4 hours--1/4 rig service; 1-1/4 rig repairs; 1/4 survey. Drilling. HRL

June 20, 1983:
Depth 4894', 354', days 9, pump 1200, table 62, wt on bit 21 tons, mud wt 10.2, vis 34, sand trace, wl 17.6, fc 2 32, ph 11.0, bit #4, 8-3/4 j22 cut 1089' from 3805' to 4894' in 62¼ hours, drilling time 22 hours, lost time 2 hours--1/4 rig service and check BOP's; 1-3/4 trip. Tripping. HRL

June 21, 1983:
Depth 5125', 231', days 10, pump 1200, table 64, wt on bit 20 tons, mud wt 10.1, vis 34, sand ¼%, wl 15, fc 2/32, ph 11.5, solids 18, bit #5, 8-3/4" f3 cut 231' from 4894' to 5125' in 21 hours, drilling time 21 hours, lost time 3 hours--3 trip for bit. Drilling. HRL

June 22, 1983:
Depth 5345', 220', days 11, pump 1200, table 64, wt on bit 21 tons, mud wt 10.2, vis 36, sand ¼%, wl 12, fc 2 32, ph 12, solids 18, bit #5, 8-3/4" f3 cut 451' from 4894' to 5345' in 44-3/4 hours, drilling time 23-3/4 hours, lost time 1/4 hour--1/4 rig service and check BOP's. HRL

June 23, 1983:
Depth 5523', 178', days 12, pump 1200, table 64, wt on bit 21 tons, mud wt 10.2, vis 35, sand ¼%, wl 11.8, fc 2/ 32, ph 12, solids 18, bit #5, 8-3/4" f3 cut 629' from 4894' to 5523' in 68¼ hours, survey 1° at 5380', drilling time 23½ hours, lost time ½ hour--½ rig service and check BOP's, and survey. Drilling. HRL

June 24, 1983:
Depth 5648', 125', days 13, pump 1200, table 64, wt on bit 21 tons, mud wt 10.2, vis 37, sand ¼%, wl 10.4, fc 2 32, ph 11.5, solids 18, bit #5, 8-3/4" f3 cut 754' from 4894' to 5648' in 80 hours, survey ½° at 5648', drilling time 11-3/4 hours, lost time 12-1/4 hours--1/4 rig service; 2-1/2 circulate; 1/2 short trip; 3 survey and trip out; 6 DST #1. DST #1

Annabelle

Patterson Unit Well No. 4
Celsius Energy Company, Operator
700' FSL, 500' FWL
SW SW 32-37S-25E, SLB&M
San Juan County, Utah
Ground Elevation: 5403'

API No.: 43-037-30844
Lease No.: ML-27237
Projected Depth: 6000'

Drilling Contractor: Arapahoe - Rig No. 4

SPUDDED JUNE 11, 1983 at 11:00 P.M.

June 12, 1983:
Depth 190', 190', days 1, pump 60, table 15, wt on bit 15 tons, water, bit #1, 12¼" f2 RR, cut 190' from 0' to 190' in 7 hours, drilling time 7 hours, lost time 17 hours--17 set and cement conductor pipe, WOC and nipple up. Drilling. HRL

June 13, 1983:
Depth 1440', 1250', days 2, pump 800, table 72, wt on bit 19 tons, water, bit #1, 12¼" f2 RR cut 1427' from 0' to 1427' in 26-3/4 hours, bit #2, 12¼" f2 RR cut 13' from 1427' to 1440' in 1 hour, surveys ½° at 732' and ½° at 1350', drilling time 20½ hours, lost time 3½ hours--¼ rig service; ½ surveys; 2-3/4 trip. Drilling. HRL

June 14, 1983:
Depth 1850', 410', days 3, pump 1100, table 60, wt on bit 20 tons, mud wt 8.7, vis 37, bit #2 RR, 12¼" f2 cut 423' from 1427' to 1850' in 12½ hours, survey 3/4° at 1850', drilling time 11½ hours, lost time 12½ hours--¼ rig service; 2¼ circulate; ½ short trip; 2 trip to log; 4 run logs; 3½ rig up and run casing. Running 9-5/8" casing. HRL

Casing Report

Landed 46 joints 9-5/8" OD, 36#, K-55, ST&C casing at 1835.01' KBM, cemented with 400 sacks Halliburton Light treated with 2% CaCl, 10-pounds gilsonite per sack, and 1/4-pound flocele per sack, tailed in with 180 sacks Regular B treated with 3% CaCl and 1/4-pound flocele per sack, ran one-inch line pipe to 75', cemented through one-inch with 60 sacks Regular G cement treated with 3% CaCl, returned 5 barrels cement slurry to surface, cement in place at 8:30 A.M., 6/14/83.

June 15, 1983:
Depth 1850', 0', days 4, lost time 24 hours--2½ rigged up Halco and cemented casing; ½ cemented from surface through one-inch pipe from 60'; 6 waiting on cement; 7½ changed gear end on pump; 7 nipple up and pressure test BOP's to 1800#, held good; ½ pick up drill collars. Picking up drill collars. HRL

June 16, 1983:
Depth 2900', 1050', days 5, pump 1100, table 70, wt on bit 19 tons, water, bit #3 RR, 8-3/4" f2 cut 1050' from 1850' to 2900' in 19-3/4 hours, survey ½° at 2418', drilling time 19-3/4 hours, lost time 4-1/4 hours--3 pick up drill collars and trip in hole; 1 drill plug and cement; 1/4 rig service. Drilling. HRL

WELL PATTERSON UNIT WELL #1
Wexpro Company
San Juan Co., Utah
Sec. 5 -T38S-R25E

The following information and reports pertaining to the above captioned well have been incorporated into our file and copies of each have been forwarded to the Dallas office and other interested parties on the date indicated.

	Well File	Bistamp Buron Jordan Dallas							
A. Location Plat									
B. Application for Permit to Drill									
1. State (Unapproved)***									
(approved)									
2. Federal (Form 9-331-C)w/NTL-6* (Unapproved)**									
(Approved)									
3. Sundry Notices(Form 9-331)*** Monthly activity report & plat	2/8/80	2/11/80							
C. Geological Prognosis									
D. Electrical Logs									
1. Field Prints Dual Ind, NGR - BHC Diplog	4/6/80 4/7/80	4/7/80							
2. Final Prints	2/22/80 3/10/80	2/22/80 3/14/80							
E. Core Analysis Reports									
F. Drill Stem Test Reports									
G. Geological Well Completion Report	4/1/80	4/1/80							
H. Other Geological Data (specify) 1. core analysis	4/10/80	4/10/80							
2.									
I. Abandonment Reports									
1. State Abandonment Reports (plugging and log of well) (Unapproved)**									
(Approved)									
2. Federal*									
a. Sundry Notices(Form 9-331) 1. (Unapproved)**									
2. (Approved)									
b. Well Completion Report and Log (Form 9-330)									

*Applicable on wells drilled on U.S.A. leases

**Applicable only on Placid Operated Wells

***If applicable see attached sheet

WELL PATTERSON UNIT WELL #1
Wexpro Company
San Juan Co., Utah
Sec 5 -T38S-R25E

		Well File	Biskamp Dallas						
Sundry Notices (Form 9-331) Monthly Activity Report									
	Month								
	supplement report April	4/9	4/9						

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U - 11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

1. OIL WELL ☐ GAS WELL ☒ OTHER

7. UNIT AGREEMENT NAME: Patterson

2. NAME OF OPERATOR: Wexpro Company

8. FARM OR LEASE NAME: Unit Well

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface

NE NW 781' FNL, 2116' FEL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5-38S-25E., SLB&M

14. PERMIT NO.: -

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 5305' KB 5318.70'

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Supplementary History			☒
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Depth 5149', drilling.

RECEIVED
FEB 21 1980
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Mauer TITLE Drilling Supt. DATE Feb. 15, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DRESSER

Dresser Atlas Division

DRESSER INDUSTRIES, INC.

P. O. DRAWER 2610 MIDLAND, TEXAS 79702 (915) 682-9751 563-1275

N. E. WILLIAMS
AREA MANAGER
WEST TEXAS AREA

March 25, 1980

Wexpro Company
1560 Beneficial Life Tower
P. O. Box 11070
Salt Lake City, Utah 84147

Gentlemen:

Enclosed are the Diplog and Computer Readout on your Patterson Unit #1, Wildcat, San Juan County, Utah.

The dip thru the 5400' to TD is to the SSW at about 2°-4°.

The dip from 3900' to 5300' is to the SSE at about 2° to 4°.

Sincerely,

Sam Conley
Area Sales Manager

SNC/sj
Enclosures

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U - 11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

1. OIL WELL ☐ GAS WELL ☒ OTHER

7. UNIT AGREEMENT NAME: Patterson

2. NAME OF OPERATOR: Wexpro Company

8. FARM OR LEASE NAME: Unit

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW 781' FNL, 2116' FEL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5-38S-25E., SLB&M

14. PERMIT NO.: -

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 5305' KB 5318.70'

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Supplementary History			☒
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

TD 5888', ran and cemented 5-1/2" casing, rig released March 22, 1980.

DST #1: 5507-5568', IO 3/4 hr, tool opened strong for 15 minutes then slid down hole 22', made connection, opened with weak blow increasing to strong, no gas to surface, tried to close tool, could not rotate, reverse circulated out some gas, tools stuck, jarred free.

Landed 5-1/2" OD, 17#, K-55, 8rd thd, LT&C casing at 5887.00' KBM, set with 510 sacks 50-50 Pozmix cement treated with 2% gel, 6-1/4 pounds per sack gilsonite and 18% salt, and with 224 sacks 50-50 Pozmix cement treated with 2% calcium chloride, bumped plug with 2800 psi, collar held OK, cement in place at 8:15 a.m. on March 22, 1980.

18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Mauer TITLE Drilling Supt. DATE April 2, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

(May 1963) UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW 781' FNL, 2116' FEL

5. LEASE DESIGNATION AND SERIAL NO.: U - 11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: Patterson

8. FARM OR LEASE NAME: Unit

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5-38S-25E., SLB&M

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.: -

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 5305' KB 5318.70'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Supplementary History			X
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

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18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Mauer TITLE Drilling Supt. DATE April 2, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: U - 11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

7. UNIT AGREEMENT NAME: Patterson

2. NAME OF OPERATOR: Wexpro Company

8. FARM OR LEASE NAME: Unit

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW 781' FNL, 2116' FWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5-38S-25E., SLB&M

14. PERMIT NO.: -

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 5305' KB 5318.70'

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Supplementary History			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

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18. I hereby certify that the foregoing is true and correct

SIGNED A. J. Mauer TITLE Drilling Supt. DATE April 2, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
APR 04 1980
DIVISION OF
OIL, GAS & MINING

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U - 11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: Patterson

8. FARM OR LEASE NAME: Unit

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: ~~Wildcat~~ (Undesignated)

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 5 - 38S - 25E.

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NE NW 781' FNL, 2116' FWL
At top prod. interval reported below
At total depth

API #: 43-037-30510

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
-	-	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11-29-79	3-20-80	4-26-80	KB 5318.70' GR 5305'	-

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5888	5615		→	0 - 5888	-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5532 - 5538' - Ismay

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, Acoustilog, Sidwall Neutron, Diplog

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	36	334.45	12-1/4	325	0
5-1/2	17	5,887.00	7-7/8	734	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	5412.00	

31. PERFORATION RECORD (*Interval, size and number*)

5532-5538', jet, 2 holes per foot

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5532-5538	750 gals 15% MSR

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
4-23-80	Flowing	Shut in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/25-26/80	15	20/64					2449:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
550	770		294	720	20	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented while testing.

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Logs as above, Well Completion and Well Lithology will be sent at a later date.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE Director, Petroleum Engrg. DATE 4-29-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Log tops:		
Morrison	0'	
Entrada	650	
Carmel	825	
Navajo	848	
Chinle	1,620	
Shimarump	2,432	
Cutler	2,555	
Honaker Trail	4,455	
Paradox	4,960	
Ismay	5,342	
Desert Creek	5,751	
Akah	5,845	
Salt	5,881'	

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NE NW 781' FNL, 2116' FWL
At top prod. interval reported below
At total depth

API #: 43-037-30510

14. PERMIT NO. -
DATE ISSUED -

5. LEASE DESIGNATION AND SERIAL NO.: U - 11668
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -
7. UNIT AGREEMENT NAME: Patterson
8. FARM OR LEASE NAME: Unit
9. WELL NO.: 1
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 5 - 38S - 25E.
12. COUNTY OR PARISH: San Juan
13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11-29-79	3-20-80	4-26-80	KB 5318.70' GR 5305'	-

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5888	5615		→	0 - 5888	-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5532 - 5538' - Ismay

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, Acoustilog, Sidwall Neutron, Diplog

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	36	334.45	12-1/4	325	0
5-1/2	17	5,887.00	7-7/8	734	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	5412.00	

31. PERFORATION RECORD (*Interval, size and number*)
5532-5538', jet, 2 holes per foot

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5532-5538	750 gals 15% MSR

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
4-23-80	Flowing	Shut in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/25-26/80	15	20/64					2449:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
550	770		294	720	20	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented while testing.

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Logs as above, Well Completion and Well Lithology will be sent at a later date.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE Director, Petroleum Engrg. DATE 4-29-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
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37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Log tops:		
Morrison	0'	
Entrada	650	
Carmel	825	
Navajo	848	
Chinle	1,620	
Shimarump	2,432	
Cutler	2,555	
Honaker Trail	4,455	
Paradox	4,960	
Ismay	5,342	
Desert Creek	5,751	
Akah	5,845	
Salt	5,881'	

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U - 11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

7. UNIT AGREEMENT NAME: Patterson

8. FARM OR LEASE NAME: Unit

2. NAME OF OPERATOR: Wexpro Company

9. WELL NO.: 1

3. ADDRESS OF OPERATOR: P. O. Box 1129, Rock Springs, Wyoming 82901

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4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NE NW 781' FNL, 2116' FWL
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 5 - 38S - 25E.

API #: 43-037-30510

14. PERMIT NO. - DATE ISSUED -

12. COUNTY OR PARISH: San Juan 13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11-29-79	3-20-80	4-26-80	KB 5318.70' GR 5305'	-

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5888	5615		→	0 - 5888	-

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5532 - 5538' - Ismay

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5-1/2	17	5,887.00	7-7/8	734	0

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SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

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SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	5412.00	

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(Rev. 5-63)

Well File

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TEST WITNESSED BY:

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SIGNED [signature] TITLE Director, Petroleum Engrg. DATE 4-29-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

WEXPRO COMPANY
Patterson Unit, Well #1
Wildcat Field
San Juan County, Utah
(Farmout Agreement)

SUMMARY

Location:	781' FSL of the North Line & 2116' FEL of the West Line of Section 5, T38S, R25E, San Juan County, Utah.
TD:	5888'
Date Spudded:	11-29-79
Date Completed:	4-26-80
Completed as:	Oil Well
Casing Record:	9-5/8" @ 334.45 5-1/2" @ 5,887.00
Tubing Record:	2-7/8" @ 5,412.00

GEOLOGICAL FIELD SHEET

KB 5320

STATE & COUNTY San Juan, Utah ELEV. 5310

OPERATOR Wexpro

FEE OWNER Patterson Unit #1

LOCATION NENW SURVEY SEC.-TWP.-RNG. 15-38S-25E

Proposed TD 5860 Janeen - 573-0212

CASING RECORD	BEG.:	COMP.: COMPLETION RECORD

TOPS

SAMPLE	SCHLUMBERGER

SCOUT REPORT FO.

THE M. L. BATH COMPANIES SHREVEPORT—HOUSTON—LAKE CHARLES BATH-O-GRAM REG. NO. 512,381 U. S. PAT. OFF.

MISCELLANEOUS INFORMATION

12/06/79 Spudded w/air 11/30/79 set 9-5/8" csg @ 321 waiting on rig

2/3/80 941' - Made 605' in 14 hrs - Dev: 3 deg @ 800' - Lost 600 BF from 870-910' - Worked stuck pipe - Pipe stuck when drlg w/ wtr and ran out of wtr -

2/4/80 941' - MW 8.5 - Vis 39 - Worked pipe & circ - Jarred on fish.

2/5/80 941' - MW 8.6 - Vis 52 - Jarred on fish - Spotted 36 bbls #2 diesel - LD jars - Ran free pt - No movement below 500' - Blew hole using nitrogen & pipe came free - C&C mud

2/6/80 1,659' - Made 718' - MW 8.6 - Vis 35 - Dev: 3/4 deg @ 1,467 - Worked stuck pipe - Pipe came free - Now tripping for bit.

2/7/80 2354' - Made 695' - MW 8.8 - Vis 34 - Drlg.

2/8/80 3132' - Made 789' - MW 8.7 - Vis 35 - Drlg

2/9/80 3627' - Made 490' - MW 9.4 - Vis 32 - Dev: 2 deg @3210' - Drlg.

2/10/80 4045' - Made 418' - MW 9.5 - Vis 36 - Drlg - Dev: 1-1/2 deg @ 3634'

WELL LOG

BOTTOM	FORMATION	BOTTOM	FORMATION	BOTTOM	FORMATION
2/11/80	4420' - Made 375' - MW 9.4 - Vis 32 - Drlg				
2/12/80	4635' - Made 215' - MW 9.7 - Vis 34 - Dev: 1-1/2 deg @ 4458' - Tripg for hole in pipe				
2/13/80	4800' - Made 165' - MW 9.8 - Vis 36 - Found 2 holes in DP - Drlg ahead				
2/14/80	4942' - Made 142' - MW 10.2 - Vis 35 - Drlg				
2/15/80	5149' - Made 207' - MW 10.2 - Vis 42 - Drlg				
2/16/80	5314' - Made 165' - MW 10.2 - Vis 42 - Drlg				
2/17/80	5430' - Made 116' - MW 10.3 - Vis 41 - Drlg				
2/18/80	5531' - Made 78' - MW 10.2 - Vis 40 - Dev: 1 deg @ 5508' - SLM, no correction - Cut 23' off core				
2/19/80	5568' - Made 37' - MW 10.3 - Vis 43 - Recv'd 58.5' core - WO testers				
2/20/80-2/21/80	5568' - Made o' - Drained rig & operations suspended due to weather conditions				
3/6/80	5568' - MW 10.3 - Vis 41 - RU - TI - Some bridges from 1100-2600' - Circ to cond mud & build vol - TO - stuck pipe @ 2517' - Working stuck pipe				
3/7/80	5568' - MW 10.2 - Vis 41 - WL 9.6 - Sd - Worked pipe - WO nitrogen - Injected 18,000 standard cf nitrogen dwn tbg - Unloaded hole from 2517' - Pipe not free - Worked in, no movement - Pmped mud in hole from 2517' - WO fishing tool (GO Internatl' from Grand Junction, CO) - Drop from report until fishing tool arrives				
3/8/80	5566' - MW 10.2 - Vis 41 - Worked stuck pipe - Ran free pt - Stuck @ 2500' - Backed off @ 2448' - TI & screwed into fish & jarred loose - Washing & drlg up through bridges @ report time.				
3/9/80	5566' - MW 10.2 - Vis 43 - Trip thru tight spot @ 2517' - W&R to 2650' - Circ & cond hole & mud for DST #1				
3/10/80	5566' - MW 10.2 - Vis 38 - TI w/ DST - Tried to make DST - Tool stuck - DST #1 (5507'-5568) - Initial op 45 min - Tool op strong & slipped dwn hole - Weak blo after making connection - Incr to strong blo - No GTS - Reversed out, some gas				
3/11/80	5568' - MW 10.3 - Vis 44 - Jarred on tst tools - Backed off safety jt - TO - TI w/ bit #5 - Circ & cond mud - Make short trip - No problems - TOF @ 5496' - pkr @ 5500' - Total fish 63' - @ report time circ & cond hole on TOF.				
3/12/80	5568' - MW 10.3 - Vis 44 - Circ & TO - PU OS,jars, bumper subs - TI - Circ & work over fish - Jarred on fish - Rel OS - TO - PU 2 jts of WO pipe, jars, bumper subs & TI				
3/13/80	5568' - MW 10.2 - Vis 43 - PU fishing tools & TI - Wash over fish - TO w/ WO pipe - Tight @ 2530' - Worked thru & tight hole @ 2417' - TO - WO key seat wiper				
3/14/80	5568' - MW 10.2 - Vis 44 - WO 3 pt reamer & key seat wiper - TI - Hit bridge @ 2363' - Fin TI - Came back up & reamed thru key seat w/ 3 pt reamer from 2404'-2567' & TO TI w/ wash pipe				

Patterson Unit #1

3/15/80 5568' - Made 0' - MW 10.3 - Vis 43 - TI w/ wash pipe - Wash over bridge @ 3500' - Wash over fish - TO - TI w/ overshot & grapple - Wash over fish - Jarred on fish- TO

3/16/80 5568' - Made 0' - MW 10.3 - Vis 42 - Bumper sub had parted mandrel - Left OS in hole - Top of fish @ 5492' - TI w/ overshot - WO fish - Would not hold - Circ & TO - Modified overshot - TI & circ over fish.

3/17/80 5568' - Made 0' - MW 10.2 - Vis 43 - Circ & wash over fish - Ran spud bars to 5570' - Overshot released - TI w/ wash pipe & bumper subs - Wash over fish - Circ - TO - PU overshot & TI

3/18/80 5602' - Made 34' - MW 10.3 - Vis 46 - Wash over fish - TO w/ fish - Washed 140' - Reamed to btm - Now TO

3/19/80 5720' - Made 118' - MW 10.5 - Vis 48 - SLM, no corr. - Drlg

3/20/80 5840' - Made 120' - MW 10.3 - Vis 47 - Drlg.

3/21/80 5588' - Made 48' - MW 10.6 - Vis 50 - SLM, no correction Logging @ report time

3/22/80 5888' - Made 0' - MW 10.6 - Vis 50 - Landed 5-1/2" csg @ 5187' - Set w/ 510 sx - Circ to set 2nd stage

3/23/80 5888' - Made 0' - Cmtd 2nd stage w/ 284 sx - Rig rel on 3-22-80 @ 11:55 pm. Report temp dropped until op resume

7/1/80 SI

MOUNTAIN FUEL SUPPLY COMPANY

SUB-SURFACE PRESSURE SURVEY — Page 1 of 1

Field Patterson — Unit Well No. 1 — Date of Survey 5/11/80

Formation Ismay — County San Juan — State Utah

Elevation 5319 KB — Datum — Perforations 5532 - 5538

Shut-in XX — Flowing ___ — Hours — Total Depth of Well PBD 5615 — Total Depth Reached 5550

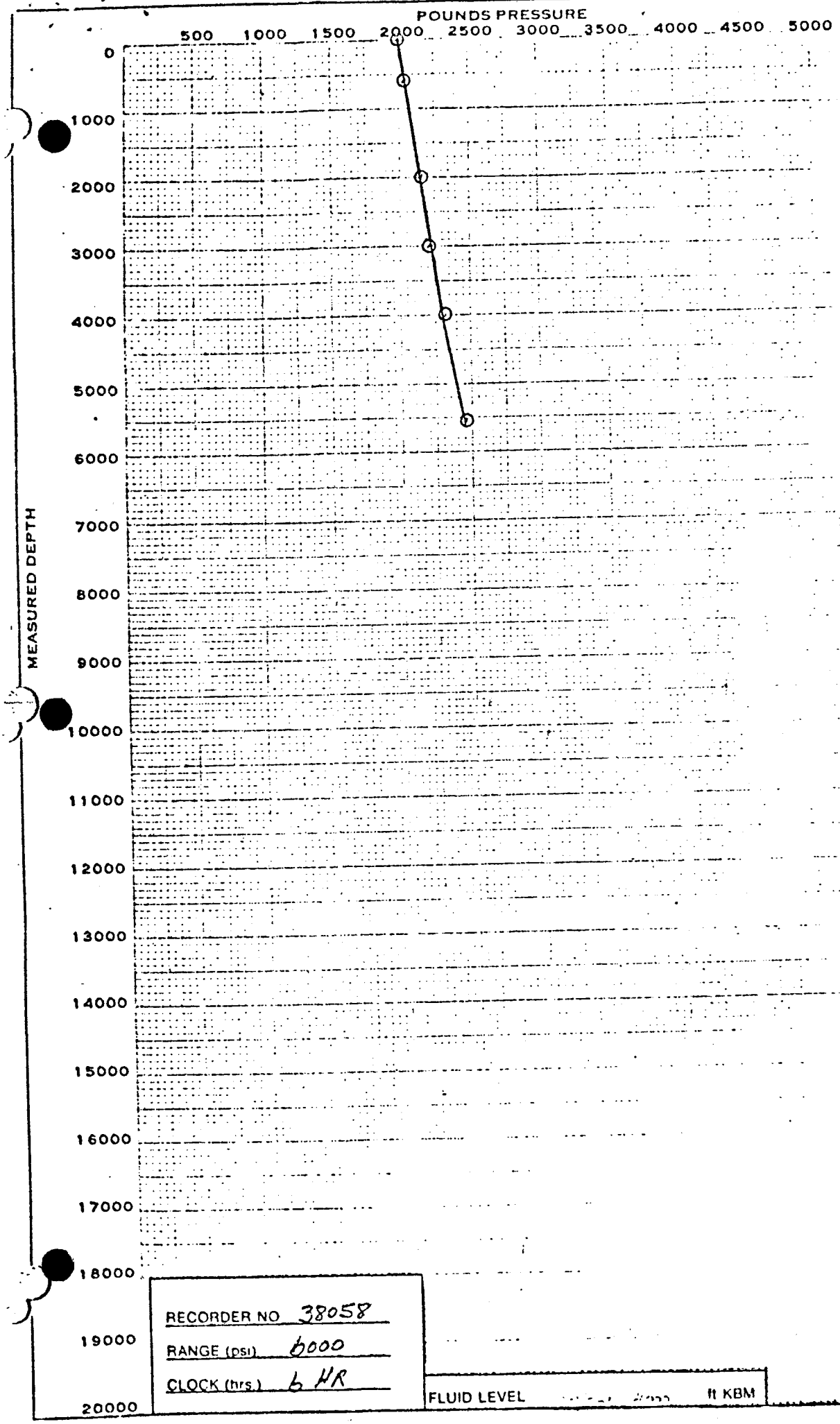
Maximum BH Temp. — Tubing Size O.D. 2-7/8 I.D. — Tubing Depth 5421 — Packer Depth NA

Well shut-in on ___ or ___ days prior to this survey — Fluid Level 4000 ft. Below KBM

Tubing pressure 2030 psig — Casing pressure 2030 psig

Time	Depth	Deflection	Pressure	Pressure Change	Gradient psi/ft.	Remarks
	Surface	.656	1997	3		Element 38058
	600	.668	2034	37	.062	6000 # 6 Hr. clock
	2000	.706	2150	116	.116	
	3000	.731	2226	76	.076	
	4000	.759	2312	86	.086	
	5550	.806	2456	144	.144	
1 hour later	5550	.808	2462			

MOUNTAIN FUEL — SUB-SURFACE PRESSURE SURVEY



CASING	5½ @ 5987
LINER	
TUBING	2 7/8 @ 5421

PERFORATIONS

FROM	TO	POOL
5532	5538	Ismay

POINT	MEAS.	VERT.
M.P. PERF.		
DATUM		

FIELD Patterson Canyon

WELL NAME Patterson Canyon

WELL NO. Unit #1

CALC. BY BGJ

RECORDER NO 38058

RANGE (psi) 6000

CLOCK (hrs.) 6 HR

FLUID LEVEL ft KBM

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 458, Rock Springs, Wyoming 82902

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: NE NW, 781' FNL, 2116' FWL

5. LEASE DESIGNATION AND SERIAL NO: U-11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

051125

7. UNIT AGREEMENT NAME: Patterson

8. FARM OR LEASE NAME: Unit

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Patterson

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 9-38S-25E

14. PERMIT NO.: 43-037-30510

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 5310' KB 5320'

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other) See Below			X	(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Wexpro Company requests permission for off-lease measurement of the above-captioned well. Due to the contraction of the Patterson Unit, the measurement of this well at the Patterson Battery is no longer within the unit boundary, and is, therefore, without authorization. A facility diagram and unit map are attached for further reference. This well produces approximately 23 BOPD, 26 BWPD, and 65 MCFPD.

RECEIVED
MAY 07 1987
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

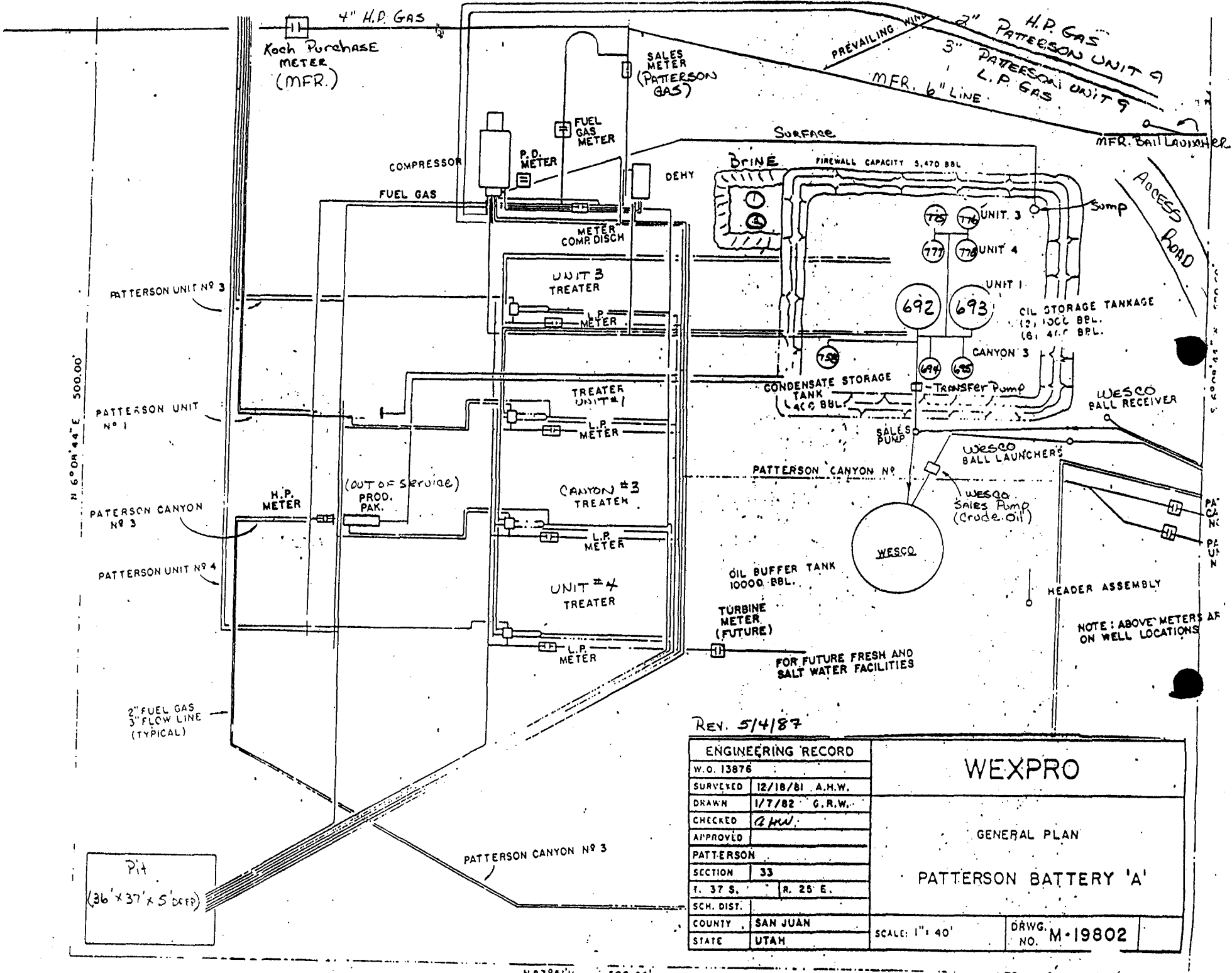
SIGNED A.R. Bryan TITLE District Manager DATE May 4, 1987

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

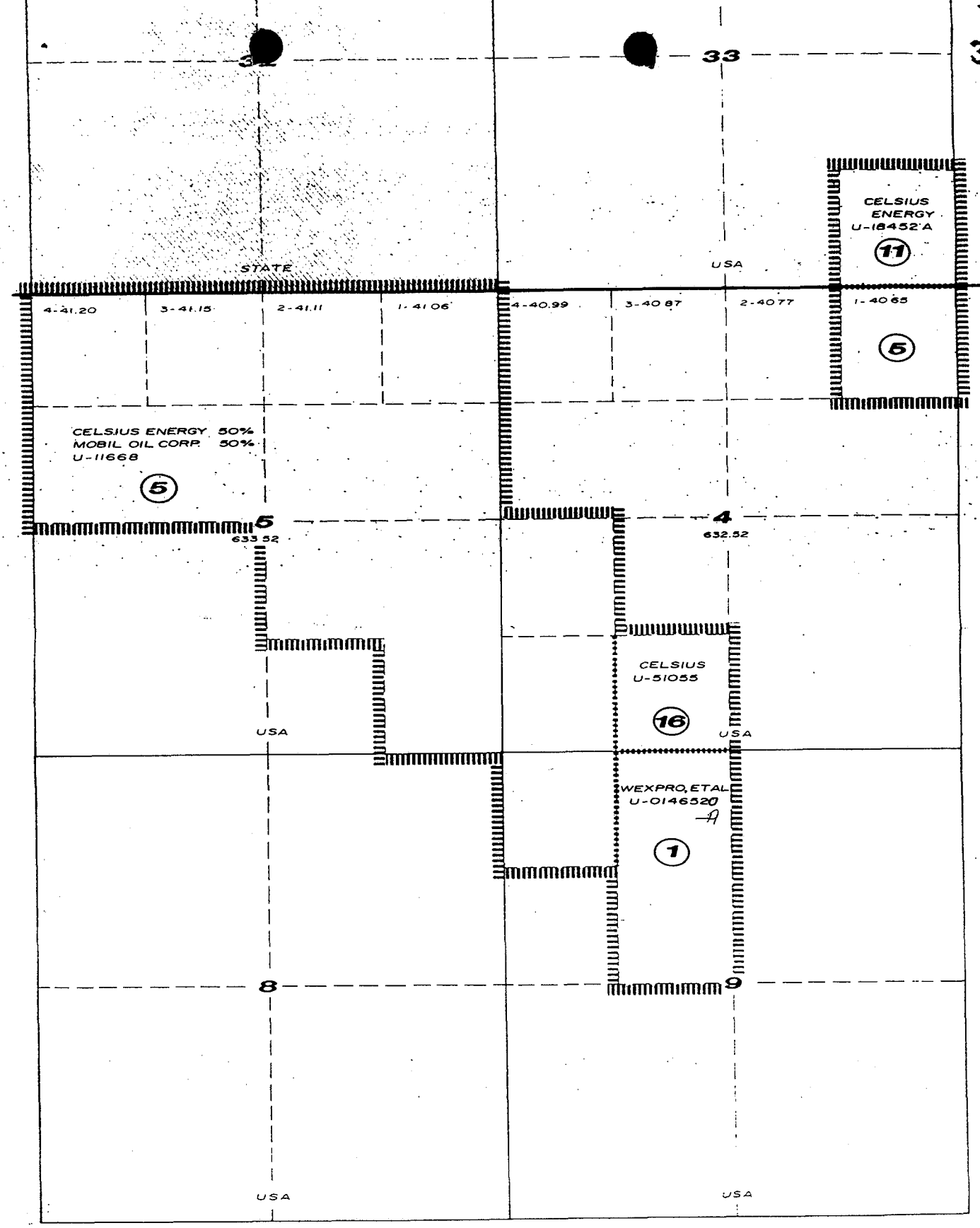
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



REV. 5/4/87

ENGINEERING RECORD		WEXPRO
W.O. 13876		
SURVEYED	12/18/81 A.H.W.	
DRAWN	1/7/82 G.R.W.	GENERAL PLAN
CHECKED	RHW	
APPROVED		PATTERSON BATTERY 'A'
PATTERSON		
SECTION	33	
T. 37 S.	R. 25 E.	
SCH. DIST.		
COUNTY	SAN JUAN	SCALE: 1" = 40'
STATE	UTAH	DRWG. NO. M-19802



MAILED FROM THE FOLLOWING
IT LAND OFFICE SURVEY PLATS
E: JULY 26, 1923 (ALL ARE IN THE S.L.B.&M., UTAH)
E: MARCH 31, 1920

	ACRES	PERCENT
UNIT BOUNDARY	765.17	100.00000
TRACT BOUNDARY AND NUMBER		
FEDERAL LANDS	765.17	100.00000
STATE LANDS		

— ABBREVIATIONS —

EXHIBIT 'A'

CONTRACTED PATTERSON UNIT

SAN JUAN COUNTY, UTAH

WEXPRO COMPANY

SALT LAKE CITY, UTAH

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

May 5, 1980

Wexpro Company
P.O. Box 1129
Rock Springs, Wyoming 82901

Re: Well No. Patterson Unit #1
Sec. 5, T. 38S, R. 25E.
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office 4-29-80, from above referred to well indicates the following electric logs were run: DIL, ACCOUSTILOG, SIDWALL NEUTRON, DIPLOG. As of todays date this office has not received the DIPLOG.

To complete our files, please forward this log to this Division as soon as possible.

Thank you for your cooperation in the above.

RECEIVED
MAY 13 1980
DIVISION OF
OIL, GAS & MINING

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Janice Tabish

JANICE TABISH
CLERK-TYPIST

5/12/80

Gentlemen,

As requested above, we have enclosed the appropriate DIPLOG.

CORRECTED

INTEROFFICE COMMUNICATION

FROM R. L. Rasmussen — Rock Springs, Wyoming (CITY / STATE)

TO T. M. Colson — DATE May 22, 1980

SUBJECT Patterson Unit Well No. 1
Bottom Hole Pressure Survey

Attached is the bottom hole pressure survey prior to production.

RLR/cjf
Attachment
cc: R. G. Myers
J. L. Baird
W. F. Oline
A. R. Logan
P. E. Files

RECEIVED
MAY 2 1980
WEXPRO COMPANY
Manager Exploration
Salt Lake City, Utah

RECEIVED
MAY 27 1980
WEXPRO COMPANY
Manager Exploration
Salt Lake City, Utah

MOUNTAIN FUEL SUPPLY COMPANY

SUB-SURFACE PRESSURE SURVEY — Page 1 of ~~2~~ 1

Field Patterson — Unit Well No. 1 — Date of Survey 5/11/80

Formation Ismay — County San Juan — State Utah

Elevation 5319 KB — Datum — Perforations 5532 - 5538

Shut-in XX — Flowing ___ — Hours — Total Depth of Well PBD 5615 — Total Depth Reached 5550

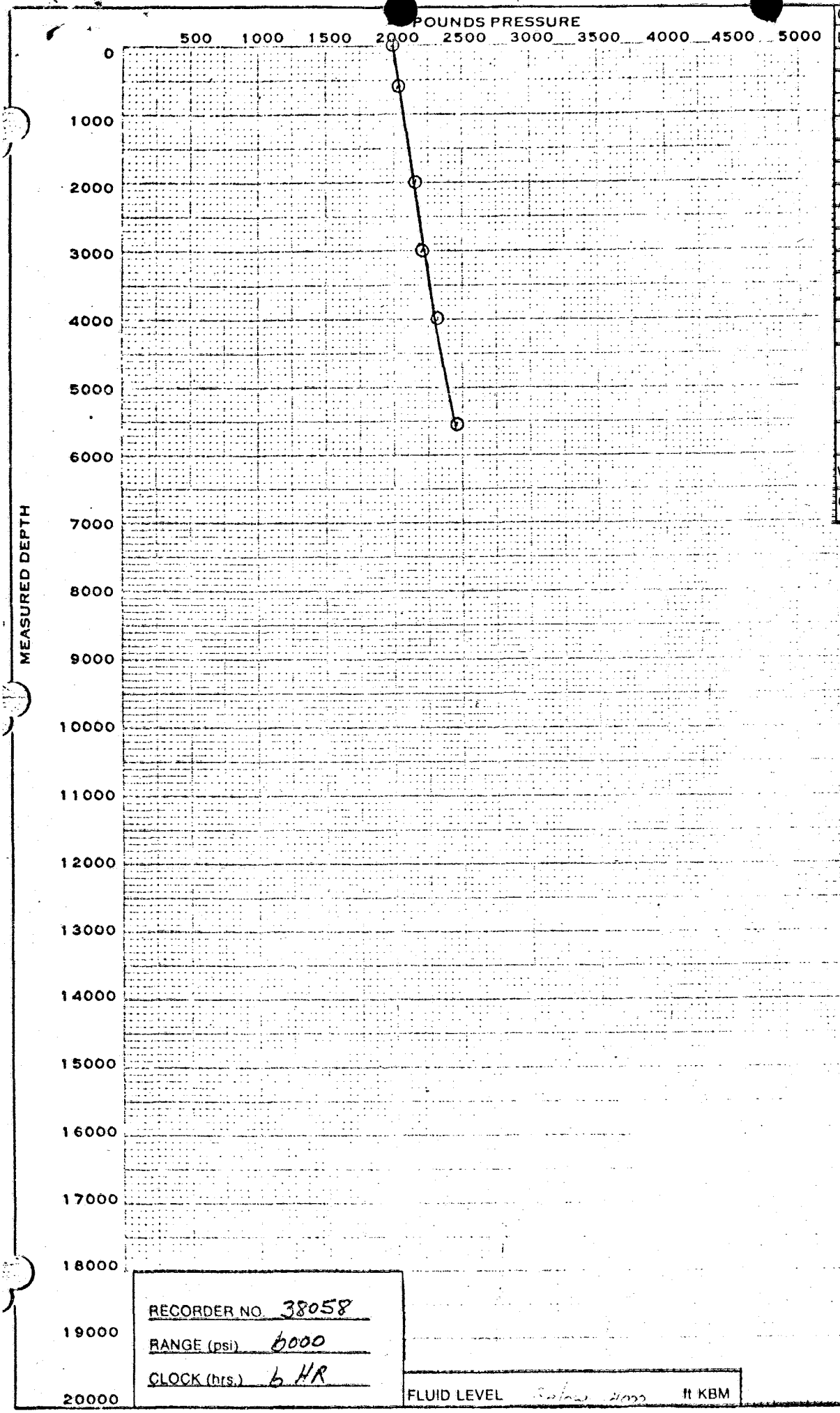
Maximum BH Temp. — Tubing Size O.D. 2-7/8 I.D. — Tubing Depth 5421 — Packer Depth NA

Well shut-in on ___ or ___ days prior to this survey — Fluid Level 4000 Below ft. KBM

Tubing pressure 2030 psig — Casing pressure 2030 psig

Time	Depth	Deflection	Pressure	Pressure Change	Gradient psi/ft.	Remarks
	Surface	.656	1997	3		Element 38058
	600	.668	2034	37	.062	6000 # 6 Hr. clock
	2000	.706	2150	116	.116	
	3000	.731	2226	76	.076	
	4000	.759	2312	86	.086	
	5550	.806	2456	144	.144	
1 hour later	5550	.808	2462			

MOUNTAIN FUEL — SUB-SURFACE PRESSURE SURVEY



CASING	5½ @ 5887
LINER	
TUBING	2 7/8 @ 5421

PERFORATIONS

FROM	TO	POOL
5532	5538	Ismay

POINT	MEAS.	VERT.
M.P. PERF.		
DATUM		

FIELD Patterson Canyon

WELL NAME Patterson Canyon

WELL NO. Unit #1

CALC. BY BGJ

RECORDER NO. 38058

RANGE (psi) 6000

CLOCK (hrs.) 6 HR

FLUID LEVEL [illegible] ft KBM

WEXPRO COMPANY

79 SOUTH STATE STREET • P.O. BOX 11070 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2600

October 13, 1982

Minerals Management Service
Deputy Conservation Manager
Oil & Gas
P. O. Box 25046
Denver Federal Center; M.S. 609
Denver, CO 80225

Gentlemen:

Plan of Development for 1982
Patterson Unit
San Juan County, Utah

Pursuant to the provisions of Section 10 of the Patterson Unit Agreement, Wexpro Company, unit operator, submits the following plan of development for 1982.

Wexpro Company will drill the Patterson Unit Wells #3 and #4 during 1982, pending final partner approval. The Patterson Unit Well #3 will be drilled to a projected total depth of 5885' and will be located in the SW¼ of the NE¼ of Section 5, Township 38 South, Range 25 East. The Patterson Unit Well #4 will be drilled to a projected total depth of 6000' and will be located in the SW¼ of the SW¼ of Section 32, Township 37 South, Range 25 East. Both of these wells will be drilled to further evaluate the Ismay Formation.

Annual Review for 1981-1982

No wells were drilled or completed within the Patterson Unit during 1981.

Both the Patterson Canyon Well #3 and the Patterson Unit Well #1 were connected to a gas gathering system on January 25, 1982. The Patterson Unit Well #1 was acidized with 10,000 gallons of HCL acid in July of this year and plans are in progress to acidize the Patterson Canyon Well #3 later this year. Production from these two wells has now indicated the potential for additional drilling within the Patterson Unit.

Unit Well Status 10-13-82

Unit Well	Status
Patterson Unit #1	Producing/Oil & Gas/Ismay
Patterson Unit #2	Plugged & Abandoned
Patterson Canyon #3	Producing/Oil & Gas/Ismay
Patterson Canyon #1	Shut-In/Oil & Gas/Ismay (Waiting on water disposal facilities)

We trust that both the plan of development and annual review will meet with your approval.

Sincerely,

WEXPRO COMPANY

Jerry B. Golden
Manager - Development/Operations

JBG:rj

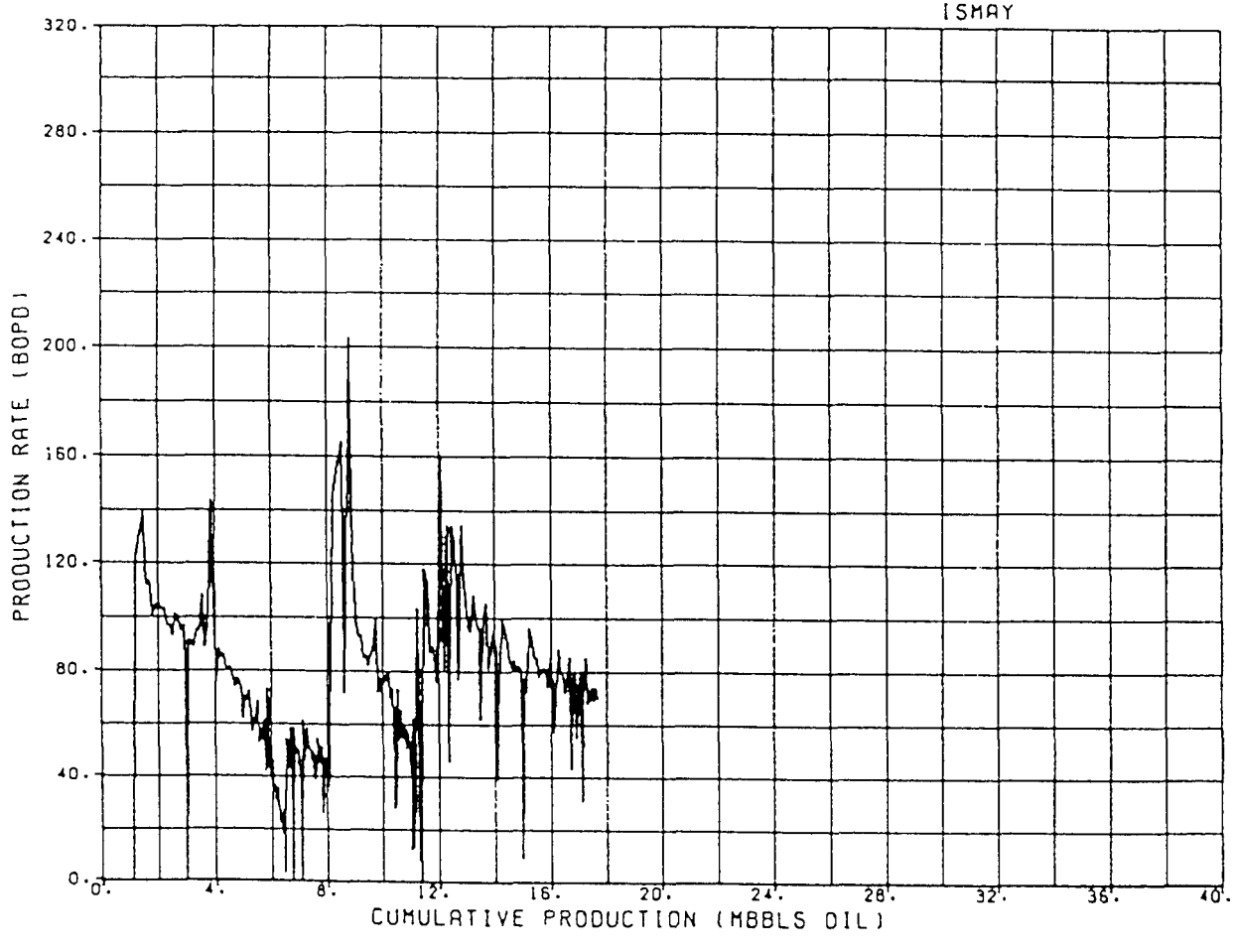
cc: Utah Division of State Lands (2)

10/04/92

PATTERSON CANYON UNIT

PATTERSON UNIT 1

ISMAY



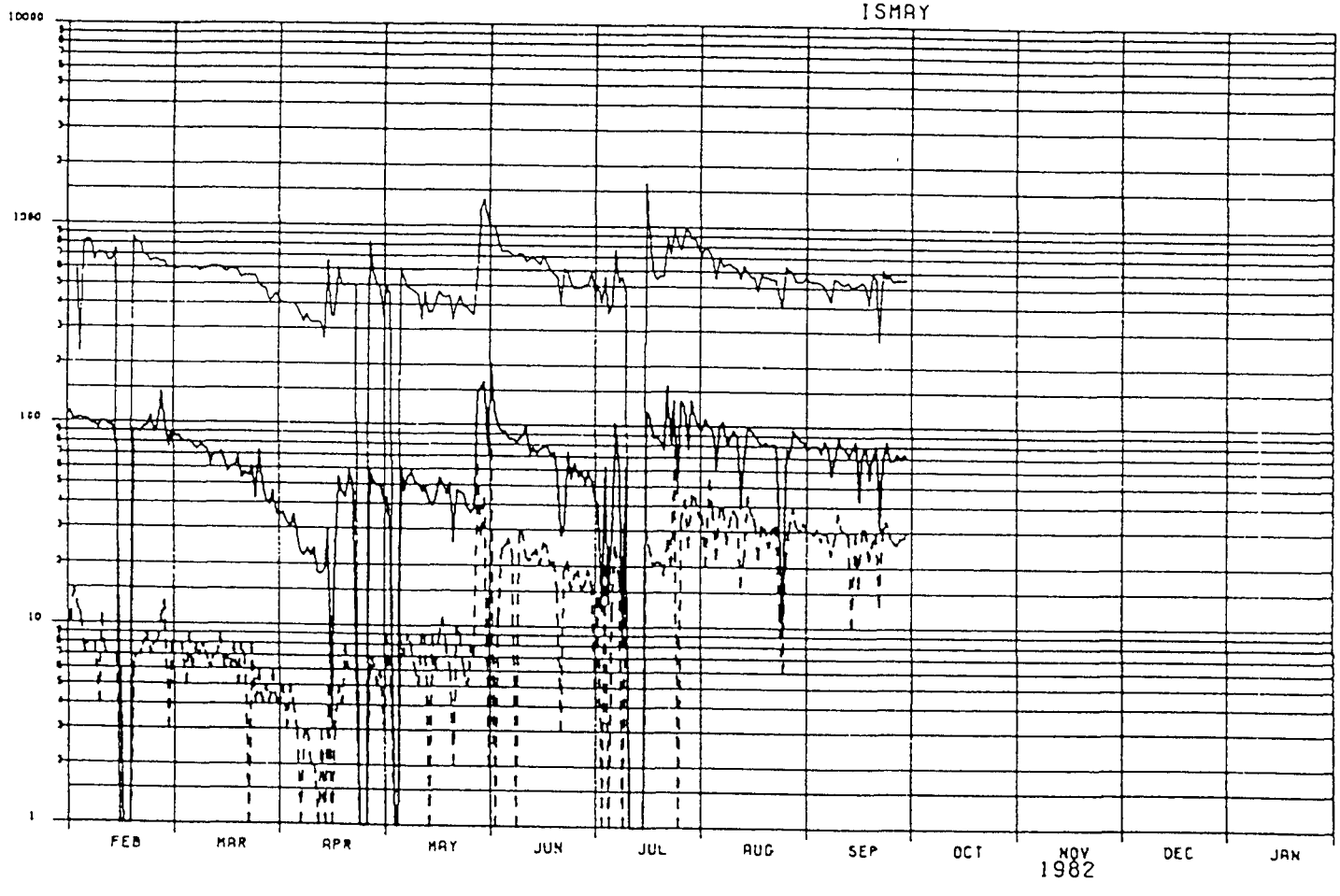
RESERVOIR ENGINEERING DEPARTMENT
10/04/82

HEAVY SOLID- OIL RATE (BOPD)
LIGHT SOLID- GAS (MCFPD)
DASHED------ WATER (BWPD)

SE S05-T38S-R25E
SAN JUAN CO
UT

PATTERSON CANYON UNIT

PATTERSON UNIT 1
ISMAY



RESERVOIR ENGINEERING DEPARTMENT
10/04/82

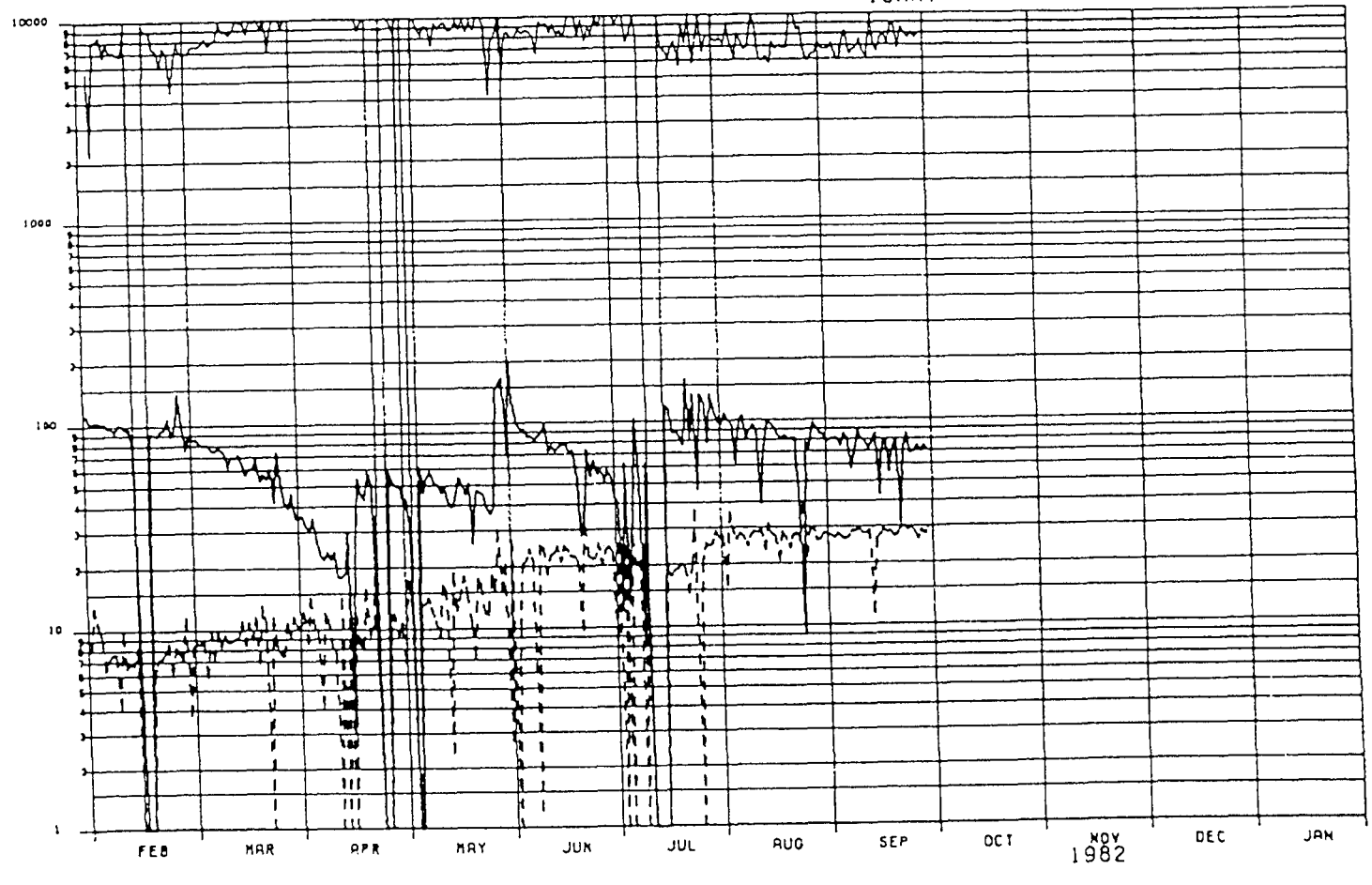
HEAVY SOLID- OIL RATE (BOPD)
LIGHT SOLID- GAS OIL RATIO
DASHED------ WATER CUT %

SE SOS-T38S-R25E
SAN JUAN CO
UT

PATTERSON CANYON UNIT

PATTERSON UNIT 1

ISMAY

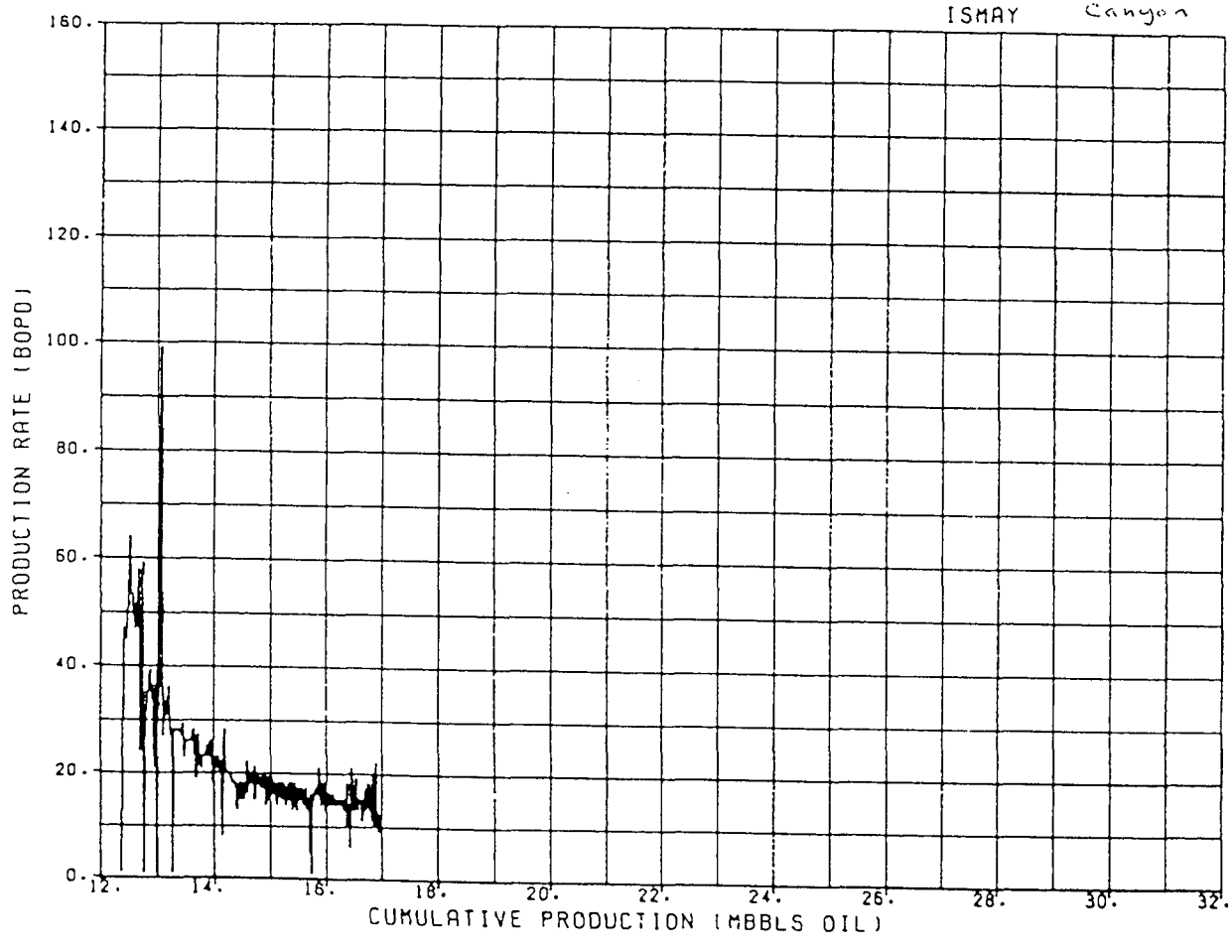


10/04/82

PATTERSON CANYON UNIT

PATTERSON ~~UNIT~~ 3

ISMAY Canyon



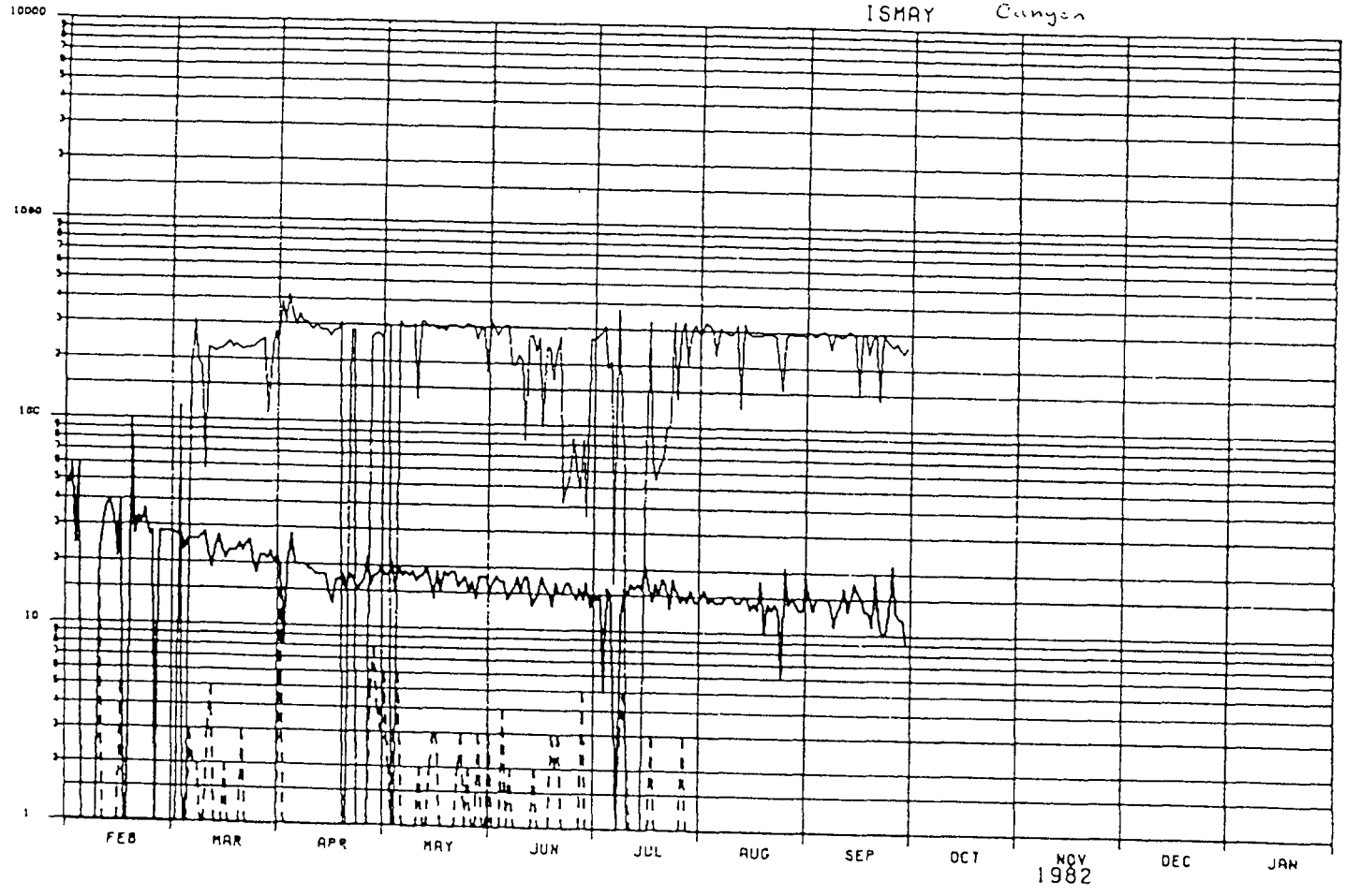
RESERVOIR ENGINEERING DEPARTMENT
10/04/82

HEAVY SOLID- OIL RATE (BOPD)
LIGHT SOLID- GAS (MCFPD)
DASHED------ WATER (BWPD)

NESE05-T38S-R25E
SAN JUAN CO
UT

PATTERSON CANYON UNIT

PATTERSON ~~UNIT~~ 3
ISMAY Canyon



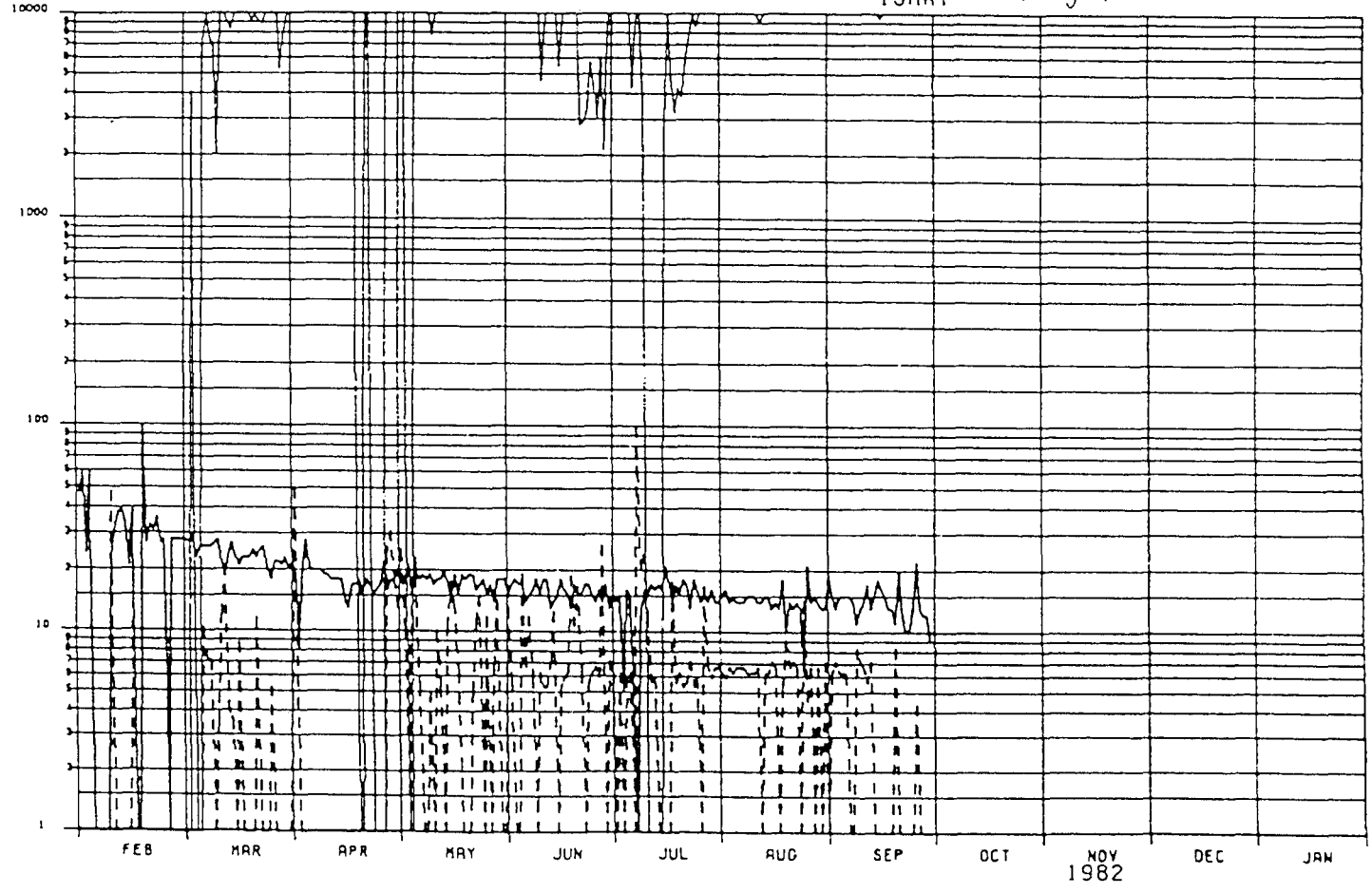
RESERVOIR ENGINEERING DEPARTMENT
10/04/82

HEAVY SOLID- OIL RATE (BOPD)
LIGHT SOLID- GAS OIL RATIO
DASHED------ WATER CUT %

NESE05-T38S-R25E
SAN JUAN CO
UT

PATTERSON CANYON UNIT

PATTERSON ~~UNIT~~ 3
ISMAY Canyon



PATTERSON UNIT
San Juan County, Utah

WORKING INTEREST OWNERS

Wexpro Company
(Unit Operator)
P. O. Box 11070
Salt Lake City, UT 84147
ATTN: E. A. Farmer, Jr.

Mountain Fuel Supply Company
P. O. Box 11368
Salt Lake City, UT 84139
ATTN: E. A. Farmer, Jr.

Mobil Oil Corporation
P. O. Box 5444
Terminal Annex
Denver, CO 80217
ATTN: Fraser M. Burback

Williams Exploration, Inc.
3025 Parker Road
Suite 601
Aurora, CO 80014

Helene B. Wolfe
P. O. Box 98
Alief, TX 77401

Marvin Wolf
P. O. Box 1715
Denver, CO 80201

McCulloch Oil & Gas Corp.
10880 Wilshire Boulevard
Los Angeles, CA 90024

Placid Oil Company
1600 First National Bank Bldg.
Dallas, TX 75202

Santa Fe Energy Company
7200 I-40 West
One Security Park
Amarillo, TX 79106

Barbara Andrau Powell
101 Hickory Ridge
Houston, TX 77024

Placid Oil Company
410 - 17th Street
Denver, CO 80202

4/8/82

Well File
Patterson Unit #1 or 2?

WEXPRO COMPANY

79 SOUTH STATE STREET • P.O. BOX 11070 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2600

October 14, 1982

Working Interest Owners
Patterson Unit
San Juan County, Utah

Plan of Development for 1982
Annual Review for 1981-1982
Patterson Unit

Gentlemen:

Attached for your examination is a copy of the plan of development for 1982 and annual review for 1981-1982 for the Patterson Unit, San Juan County, Utah.

We trust that both the plan and review will meet with your approval, and we are mailing them to the Minerals Management Service today.

Sincerely,

J. B. Golden

J. B. Golden
Manager - Development/Operations

JBG:rj

Attachment

Form 3160-5
December 1989

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED
OCT 03 1990
DIVISION OF
OIL, GAS & MINING

5. Lease Designation and Serial No.: U-11668

6. If Indian, Allottee or Tribe Name: --

7. If Unit or CA, Agreement Designation: Patterson Unit

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Patterson Unit 1

2. Name of Operator: Wexpro Company

9. API Well No.: 43-037-30510 POW

3. Address and Telephone No.: P. O. Box 458, Rock Springs, WY 82902 307-382-9791

10. Field and Pool, or Exploratory Area: Patterson

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
781' FNL, 2116' FWL, NE NW, 5-38S-25E

11. County or Parish, State: San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Flare Gas	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On October 11, 1990, Patterson Battery Compressor is scheduled to be shut-in for routine maintenance. It is anticipated that the overhaul will be completed in four days. While the compressor is down, approximately 70 MCFPD will be vented to the atmosphere from the above well. Other wells which will be venting gas are Patterson Unit Wells No. 1, 3 and 9, and Patterson Canyon Wells No. 1 and 3. The volume of flared gas will be reported on the Monthly Report of Operations.

OIL AND GAS
DFN ✓ RJF
JRB GLH
DTS 2 ✓ SLS
3 SBH
4 Dmas
MICROFILM ✓
FILE

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10/18/90
BY:

Federal approval of this action is required before commencing operations.

14. I hereby certify that the foregoing is true and correct

Signed _____ Title District Manager Date 10/02/90

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U-11668

6. If Indian, Allottee or Tribe Name: ---

7. If Unit or CA, Agreement Designation: Patterson

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Unit No. 1

2. Name of Operator: WEXPRO

9. API Well No.: 43-037-30510

3. Address and Telephone No.: P.O. Box 458 Rock Springs, WY 82902 (307) 382-9791

10. Field and Pool, or Exploratory Area: Patterson

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
781' FNL, 2116' FWL
NE NW 9-38S-25E

11. County or Parish, State: San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[XX] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Flare Gas	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On September 24, 1992, Patterson Battery Compressor is scheduled to be shut-in for overhaul. It is anticipated that the overhaul will be completed in three days. While the compressor is down, approximatly 171 MCFPD (combined total) will be vented to the atmosphere from Patterson Canyon No. 1, Patterson Canyon No. 3, Patterson Unit No. 1 and Patterson Unit No. 3. The volume of gas flared will be reported on the Monthly Report of Operations. Verbal approval was granted by Dale Manchester, Moab District Office.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/30/92
BY: [signature]

RECEIVED
SEP 28 1992
DIVISION OF OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [signature] Title District Superintendent Date 9/24/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. LEASE DESIGNATION AND SERIAL NO.
U-11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
---

7. IF UNIT OR CA, AGREEMENT DESIGNATION
PATTERSON

1. TYPE OF WELL
OIL [X] WELL GAS [ ] WELL [ ] OTHER

8. WELL NAME AND NO.
UNIT NO. 1

2. NAME OF OPERATOR
WEXPRO COMPANY

9. API WELL NO.
43-037-30510

3. ADDRESS AND TELEPHONE NO.
P. O. BOX 458, ROCK SPRINGS, WY 82902 (307) 382-9791

10. FIELD AND POOL, OR EXPLORATORY AREA
PATTERSON

4. LOCATION OF WELL (FOOTAGE, SEC., T., R., M., OR SURVEY DESCRIPTION)
781' FNL, 2116' FWL
NE NW, 9-38S-25E

11. COUNTY OR PARISH, STATE
SAN JUAN, UTAH

RECEIVED
OCT 12 1993
DIVISION OF
OIL, GAS & MINING

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change in Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other FLARE GAS	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On October 7-13, 1993, the Patterson Battery Compressor was shut-in for overhaul. While the compressor is down, approximately 50 MCFPD will be vented to the atmosphere from the above well. Other wells which will be venting gas are Patterson Unit Well Nos. 1, 3 and 9, and Patterson Canyon Well Nos. 1 and 3. The volume of flared gas will be reported on the Monthly Report of Operations. Verbal approval was granted by Eric Jones, Moab District Office.

14. I hereby certify that the foregoing is true and correct

Signed _____ Title District Superintendent Date 10/8/93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S. C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. LEASE DESIGNATION AND SERIAL NO.
U-11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
---

7. IF UNIT OR CA, AGREEMENT DESIGNATION
PATTERSON

1. TYPE OF WELL
OIL [X] WELL GAS [ ] WELL [ ] OTHER

8. WELL NAME AND NO.
UNIT NO. 1

2. NAME OF OPERATOR
WEXPRO COMPANY

9. API WELL NO.
43-037-30510

3. ADDRESS AND TELEPHONE NO.
P. O. BOX 458, ROCK SPRINGS, WY 82902 (307) 382-9791

10. FIELD AND POOL, OR EXPLORATORY AREA
PATTERSON

4. LOCATION OF WELL (FOOTAGE, SEC., T., R., M., OR SURVEY DESCRIPTION)
781' FNL, 2116' FWL
NE NW, 9-38S-25E

11. COUNTY OR PARISH, STATE
SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[X] Notice of Intent	[ ] Abandonment	[ ] Change in Plans	
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction	
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing	
	[ ] Casing Repair	[ ] Water Shut-Off	
	[ ] Altering Casing	[ ] Conversion to Injection	
	[X] Other FLARE GAS	[ ] Dispose Water	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On November 27, 1995, Questar Pipeline Company shut-in their pipeline. While the pipeline is down, approximately 300 MCFPD will be vented to the atmosphere from the following wells: Patterson Unit Well Nos. 1,3, and 9 and Patterson Canyon Well No. 3. The volume of flared gas will be reported on the Monthly Report of Operations. Verbal approval was granted by Eric Jones, Moab District Office. The pipeline is scheduled to be turned on December 1, 1995.

14. I hereby ~~certify that the~~ foregoing is true and correct

Signed _____ Title Operations Manager Date 11/27/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S. C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. LEASE DESIGNATION AND SERIAL NO.: U-11668

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ----

7. IF UNIT OR CA, AGREEMENT DESIGNATION: PATTERSON

1. TYPE OF WELL: [X] OIL WELL [ ] GAS WELL [ ] OTHER

8. WELL NAME AND NO.: UNIT NO. 1

2. NAME OF OPERATOR: WEXPRO COMPANY

9. API WELL NO.: 43-037-30510

3. ADDRESS AND TELEPHONE NO.: P. O. BOX 458, ROCK SPRINGS, WY 82902 (307) 382-9791

10. FIELD AND POOL, OR EXPLORATORY AREA: PATTERSON

4. LOCATION OF WELL (FOOTAGE, SEC., T., R., M., OR SURVEY DESCRIPTION)

781' FNL, 2116' FWL
NE NW, 9-38S-25E

11. COUNTY OR PARISH, STATE: SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[X] Notice of Intent	[ ] Abandonment	[ ] Change in Plans	
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction	
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing	
	[ ] Casing Repair	[ ] Water Shut-Off	
	[ ] Altering Casing	[ ] Conversion to Injection	
	[X] Other FLARE GAS	[ ] Dispose Water	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On November 27, 1995, Questar Pipeline Company shut-in their pipeline. While the pipeline is down, approximately 300 MCFPD will be vented to the atmosphere from the following wells: Patterson Unit Well Nos. 1,3, and 9 and Patterson Canyon Well No. 3. The volume of flared gas will be reported on the Monthly Report of Operations. Verbal approval was granted by Eric Jones, Moab District Office. The pipeline is scheduled to be turned on December 1, 1995.

14. I hereby certify that the foregoing is true and correct

Signed _____ Title Operations Manager Date 11/27/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S. C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Form 3160-5
(Aug. 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires: Nov. 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
SEE BELOW

6. If Indian, Alliottee or Tribe Name
NA

7. If Unit or CA,/Agreement, Name and/or No.
PATTERSON UNIT

8. Well Name and No.
SEE BELOW

9. API Well No.
SEE BELOW

10. Field and Pool, or Exploratory Area
PATTERSON

11. County or Parish, State
SAN JUAN COUNTY, UTAH

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
WEXPRO COMPANY

3a. Address
P. O. BOX 458, ROCK SPRINGS, WYOMING 82902-0458

3b. Phone No. *(include area code)*
307-382-9791

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
SEE BELOW

43-037-30510

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/Resume)	[ ] Water Shut-Off
[ ] Subsequent Report	[ ] Alter Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Final Abandonment Notice	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[X] Other VARIANCE
	[ ] Change Plans	[ ] Plug and Abandon	[ ] Temporarily Abandon	
	[ ] Convert to Injection	[ ] Plug Back	[ ] Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion is a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Wexpro Company is requesting a variance from Onshore Order No. 5, III.B.17 which requires meter calibrations on a quarterly basis. Wexpro Company is requesting that meter calibrations be performed on the following wells on a semi-annual basis:

Patterson Unit Well No. 1
NE NW 5-38S-25E
San Juan County, Utah
Lease No. U-11668
Meter Location 1087
API No. 43-037-30510
Currently does not produce

Patterson Unit Well No. 3
SW NE 5-38S-25E
San Juan County, Utah
Lease No. U-11668
Meter Location 1627
API No. 43-037-30848
Produces 10 MCFPD

Patterson Unit Well No. 5
SW SW 4-38S-25E
San Juan County, Utah
Lease No. U-11668
Meter Location 2294
API No. 43-037-31019
Water Injection Well
Fuel Gas Meter - No sales

Patterson Canyon Well No. 1
NE NW 9-38S-25E
San Juan County, Utah
Lease No. U-0146520-A
Meter Location 1878
API No. 43-037-30170
Produces 45 MCFPD

RECEIVED
JUL 18 2001
DIVISION OF
OIL, GAS AND MINING

CONTINUED ON PAGE TWO

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
G. T. Nimmo — Title Operations Manager

Signature — Date July 12, 2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(Aug. 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PAGE TWO

FORM APPROVED
OMB No. 1004-0135
Expires: Nov. 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator
WEXPRO COMPANY

3a. Address
P. O. BOX 458, ROCK SPRINGS, WYOMING 82902-0458

3b. Phone No. *(include area code)*
307-382-9791

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
SEE BELOW

5. Lease Serial No.
SEE BELOW

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA./Agreement, Name and/or No.
PATTERSON UNIT

8. Well Name and No.
SEE BELOW

9. API Well No.
SEE BELOW

10. Field and Pool, or Exploratory Area
PATTERSON

11. County or Parish, State
SAN JUAN COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/Resume)	[ ] Water Shut-Off
[ ] Subsequent Report	[ ] Alter Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Final Abandonment Notice	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[X] Other VARIANCE
	[ ] Change Plans	[ ] Plug and Abandon	[ ] Temporarily Abandon	
	[ ] Convert to Injection	[ ] Plug Back	[ ] Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion is a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The request for variance is based on the following reasons:

(1) Questar Gas Management takes delivery of the gas produced from the Patterson A Battery located in the SW SW 33-37S-25E, through Meter Location 377 (Master Meter) which is the delivery and royalty point for the gas produced from the above wells.

(2) The well meters listed are for allocation purposes only.

(3) A change from quarterly to semi-annual meter calibrations would be more cost effective for Wexpro due to the low gas production.

(4) Conducting meter calibrations on a semi-annual basis would not have a negative impact on royalties or royalty payments.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 7/23/01

By: [signature]

Federal Approval Of This Action Is Necessary

COPY SENT TO OPERATOR
Date: 7-23-01
Initials: CHD

RECEIVED

JUL 18 2001

DIVISION OF
OIL, GAS AND MINING

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **1/2/2006**

FROM: (Old Operator):	**TO:** (New Operator):
N1070-Wexpro Company	N2355-Seeley Oil Company, LLC
PO Box 458	PO Box 9105
Rock Springs, WY 82902	Salt Lake City, UT 84109
Phone: 1 (307) 382-9791	Phone: 1 (801) 467-6419

CA No. **Unit:** **PATTERSON**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
PATTERSON UNIT 5	04	380S	250E	4303731019	1071	Federal	WD	A
PATTERSON CYN 3	05	380S	250E	4303730391	1070	Federal	OW	S
PATTERSON UNIT 1	05	380S	250E	4303730510	1065	Federal	OW	S
PATTERSON UNIT 3	05	380S	250E	4303730848	1065	Federal	OW	S
PATTERSON CYN 1	09	380S	250E	4303730170	1070	Federal	OW	S

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 3/6/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 3/15/2006

3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/13/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5260313-0160
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: Requested 6/13/06
6b. Inspections of LA PA state/fee well sites complete on: n/a
6c. Reports current for Production/Disposition & Sundries on: ok

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 5/5/2006 BIA n/a

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 5/5/2006

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/13/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/13/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/13/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT0692
2. Indian well(s) covered by Bond Number: n/a
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

a. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number: UTU-11668

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name: Patterson Canyon

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: Patterson Unit 1

2. Name of Operator: SEELEY OIL COMPANY, LLC N2880

9. API Well Number: 43-037-30510

3. Address and Telephone Number: P.O. Box 9105, Salt Lake City, UT 84109 (801) 467-6419

10. Field and Pool, or Wildcat: Patterson Canyon

4. Location of Well
Footages:
QQ, Sec., T., R., M.: NENW - Sec. 5, T38S,R25E

County: San Juan
State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandon	[ ] New Construction	[ ] Abandon *	[ ] New Construction
[ ] Repair Casing	[ ] Pull or Alter Casing	[ ] Repair Casing	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recomplete	[ ] Change of Plans	[ ] Reperforate
[ ] Convert to Injection	[ ] Reperforate	[ ] Convert to Injection	[ ] Vent or Flare
[ ] Fracture Treat or Acidize	[ ] Vent or Flare	[ ] Fracture Treat or Acidize	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Other Change of Operator	
[ ] Other			
Approximate date work will start		Date of work completion	

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Seeley Oil Company, LLC is considered to be the operator of the above referenced well, Lease U-11668, San Juan County, Utah, and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Utah Federal Bond UT0692.

13.
Name & Signature: B. K. Seeley Jr. Title: President Date: 2/28/06

(This space for State use only)

APPROVED 6/13/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
MAR 0 6 2006
DIV. OF OIL, GAS & MINING

(4/94)

Form 3160- 5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004- 0135
Expires: January 31,2004

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

5. Lease Serial No.: U-11668
6. If Indian, Allottee, or Tribe Name: N/A
7. If Unit or CA. Agreement Designation: Patterson
8. Well Name and No.: Patterson Unit 1
9. API Well No.: 43-037-30510
10. Field and Pool, or Exploratory Area: Patterson
11. County or Parish, State: San Juan, Utah

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other
2. Name of Operator: WEXPRO COMPANY N1070
3a. Address: P. O. BOX 458, ROCK SPRINGS, WY 82902
3b. Phone No. *(include area code)*: (307) 382-9791
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: 781' FNL, 2116' FWL; NENW: 5-T38S-R25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/ Resume)	[ ] Water Shut-off
	[ ] Altering Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[X] Other Change of Operator
	[ ] Change Plans	[ ] Plug and abandon	[ ] Temporarily Abandon	
[ ] Final Abandonment Notice	[ ] Convert to Injection	[ ] Plug back	[ ] Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that Seeley Oil Company, LLC is considered to be the operataor of the above referenced well pursuant to that certain Assignment and Bill of Sale dated November 18, 2005. Seeley Oil Company, LLC is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. The effective date of change is January 2, 2006.

Bond #58023144

Seeley Oil Company, LLC
P.O. Box 9015
Salt Lake City, Utah 84109-0015

B.K. Seeley Jr. President

Date March 10, 2006

APPROVED 6/13/06
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

14. I hereby certify that the foregoing is true and correct.
Name *(Printed/ Typed)* J.R. Livsey Vice President

Signature J R Livsey Date March 10, 2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED
MAR 15 2006
DIV. OF OIL, GAS & MINING

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

IN REPLY REFER TO
3180
UT-922

May 5, 2006

Seeley Oil Company, LLC
P.O. Box 9015
Salt Lake City, Utah 84109

Re: Patterson Unit
San Juan County, Utah

Gentlemen:

On April 14, 2006, we received an indenture dated January 2, 2006, whereby Wexpro Company resigned as Unit Operator and Seeley Oil Company, LLC was designated as Successor Unit Operator for the Patterson Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective May 5, 2006. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Patterson Unit Agreement.

Your Utah statewide oil and gas bond No. UT0692 will be used to cover all federal operations within the Patterson Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ James Fouts

for Douglas Cook
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Moab (w/enclosure)
SITLA
Division of Oil, Gas & Mining
File - Patterson Unit (w/enclosure)
Agr. Sec. Chron
Reading File
Central Files

UT922:TAThompson:tt:5/5/06